



# APPLICATION/PERMIT TO CONSTRUCT, OPERATE AND MAINTAIN UTILITY FACILITIES ON HIGHWAY RIGHT-OF-WAY

Wisconsin Department of Transportation  
DT1553 8/2022 s. 66.0831, 84.01(31), 84.08, 85.15, 86.07(2)(a), 86.16, 182.017 and other applicable Wis. Stats.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. Applicant (Utility facility owner) Name and Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 2. Work Start Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3. Work Finish Date* | 6. Public Land Survey System Location (1/4 section, section, town, range; <b>provide plat map</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 4. Is the work due to a WisDOT highway project?<br><input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      | 7. Municipal/County Location (List all that apply)<br><br>County: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 5. Applicant Work Order or Project ID # (If any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| 9. Facility Type (Check all that apply) and Description (Size, material, voltage, pressure, # fibers, etc.)                                                                                                                                                                                                                                                                                                                                                                                                              |  | 12. Proposed Work Methods (Check all that apply)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 8. Highway (List all that apply)<br>WIS: _____<br>US: _____<br>Interstate: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <input type="checkbox"/> Comm: _____<br><input type="checkbox"/> Electric: _____<br><input type="checkbox"/> Gas/Oil: _____<br><input type="checkbox"/> Water: _____<br><input type="checkbox"/> Sewer: _____<br><input type="checkbox"/> Casing: _____<br><input type="checkbox"/> Conduit: _____<br><input type="checkbox"/> _____: _____<br><input type="checkbox"/> Transmission <input type="checkbox"/> Service<br><input type="checkbox"/> Distribution <input type="checkbox"/> Service ( <a href="#">ESCP</a> ) |  | <input type="checkbox"/> Trench <input type="checkbox"/> Plow<br><input type="checkbox"/> Place fill <input type="checkbox"/> Rock blasting<br><input type="checkbox"/> Place cable <input type="checkbox"/> Open cut<br>in conduit      pavement<br><input type="checkbox"/> Hand/mechanical excavation<br><br>Bore:<br><input type="checkbox"/> Hydraulic (Auger/Jack/Tunnel)<br><input type="checkbox"/> Pneumatic (Mole)<br><input type="checkbox"/> Directional 1 (Manually tracked)<br><input type="checkbox"/> Directional 2 (Computer tracked)<br><input type="checkbox"/> Unknown (At this time) |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| 10. Facility Orientation (Check all that apply)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | Install or attach to poles/towers:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      | 13. Work Zone Description ( <b>Check all that apply</b> ).<br>(Provide relevant diagram(s) with application.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| <input type="checkbox"/> Underground <input type="checkbox"/> Overhead<br><input type="checkbox"/> Crossing <input type="checkbox"/> Parallel<br><input type="checkbox"/> <a href="#">OSOW high clearance route</a><br><input type="checkbox"/> Bridge attachment<br><input type="checkbox"/> Scenic easement (Off right-of-way)                                                                                                                                                                                         |  | <input type="checkbox"/> New <input type="checkbox"/> Existing <input type="checkbox"/> Guys<br>(~Diameter) (Name of existing owner)<br>(Provide details for all guy wires on plan sheets)<br><br>Pothole (Subsurface excavation):<br><input type="checkbox"/> Air <input type="checkbox"/> Water                                                                                                                                                                                                                                                                                                         |                      | <input type="checkbox"/> Not applicable<br><input type="checkbox"/> Full road closure: detour<br><input type="checkbox"/> Full road closure: temporary<br><input type="checkbox"/> Lane closure without flagging<br><input type="checkbox"/> Lane closure with flagging<br><input type="checkbox"/> Lane encroachment (2 feet or less)<br><input type="checkbox"/> Shoulder/parking lane closure<br><input type="checkbox"/> Turn lane closure<br><input type="checkbox"/> Sidewalk or trail closure<br><input type="checkbox"/> Terrace (Area from curb to sidewalk)<br><input type="checkbox"/> Off shoulder/parking lane<br><input type="checkbox"/> Near right-of-way line or fence<br><input type="checkbox"/> Freeway/expressway<br><input type="checkbox"/> Intersection/roundabout<br><input type="checkbox"/> Railroad crossing<br><input type="checkbox"/> Mobile operation |  |
| 11. Work Types (Check all that apply)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Tree/vegetation control:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      | 14. Is the facility near a survey monument? <a href="#">HMM 09-15-35</a><br>If yes, call (866) 568-2852 or email <a href="mailto:geodetic@dot.wi.gov">geodetic@dot.wi.gov</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| <input type="checkbox"/> New facility <input type="checkbox"/> Remove<br><input type="checkbox"/> Joint install <input type="checkbox"/> Maintenance<br><input type="checkbox"/> Improve or <input type="checkbox"/> Discontinue,<br>repair existing      left in place                                                                                                                                                                                                                                                  |  | <input type="checkbox"/> Trim (Prune) <input type="checkbox"/> Plant<br><input type="checkbox"/> Remove (Cut) <input type="checkbox"/> Mow<br><input type="checkbox"/> Chemically treat                                                                                                                                                                                                                                                                                                                                                                                                                   |                      | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>15. Will appurtenances be installed with the facility? If yes, provide a description and/or specification for each item.<br><input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      | 16. Trans 401 category? If Major, provide a formal erosion control plan. <a href="#">HMM 09-15-55</a><br><br><input type="checkbox"/> Major <input type="checkbox"/> Minor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      | 17. Is the Environmental Checklist included? See <a href="#">HMM 09-15-16</a><br>Attachment 1. WisDOT will not review a permit application until a completed Checklist is submitted.<br><br><input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |

\* Includes permanent restoration. If the permitted work has not started by the "Work Finish Date," this permit is null and void. If the permitted work has started but has not been completed by the "Work Finish Date," the work shall not be completed unless authorized through an approved written time extension or a subsequent permit. **ANY PERMIT ISSUED IS REVOCABLE.**

|                                                                                                             |                  |                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18. Utility Person Responsible for Construction                                                             | Telephone Number | It is understood and agreed that WisDOT approval is subject to the applicant's full compliance with all pertinent statutes, as well as any regulations and rules of other jurisdictional agencies (which may be more restrictive), any supplemental permit provisions, and WisDOT's <a href="#">Utility Accommodation Policy</a> , current edition.               |
| 19. Utility or Project 24/7 Emergency Contact                                                               | Telephone Number |                                                                                                                                                                                                                                                                                                                                                                   |
| 20. Provide company name and address of utility authorized representative if not employed by the applicant. |                  | (Utility Authorized Representative Signature – If filled via computer, brush script font) (Date)                                                                                                                                                                                                                                                                  |
| 21. Provide additional work details, if needed (use back page or include separate pages)                    |                  | (Title) (Telephone Number) (Email Address)                                                                                                                                                                                                                                                                                                                        |
|                                                                                                             |                  | <b>This permit does not transfer any land, or give, grant or convey any land right, right in land, or easement in WisDOT right-of-way. It is not assignable or transferrable. If the utility facility changes ownership, this permit terminates. The new owner must then obtain a permit to occupy, operate and maintain the facility in WisDOT right-of-way.</b> |

## Completed by Wisconsin Department of Transportation – REVIEW AFTER PERMIT ISSUANCE

|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <input type="checkbox"/> <b>UTILITY SHALL NOTIFY WisDOT REPRESENTATIVE LISTED BELOW 3 DAYS BEFORE STARTING ANY WORK:</b><br>Region contact, office address, telephone number and email address<br><br>Wisconsin DOT<br><br>_____ | <input type="checkbox"/> <b>Review All Supplemental Permit Provisions</b><br><input type="checkbox"/> <b>Revisions Made to Drawings or Other Pages</b><br><input type="checkbox"/> Lane Closure System notification required <a href="#">See Provision 7</a><br><input type="checkbox"/> Insurance or performance bond required<br><input type="checkbox"/> Joint installation: See permit(s) # _____<br><input type="checkbox"/> Private utility (Non-public ownership and/or use)<br><input type="checkbox"/> Expedited Service Connection Permit<br><input type="checkbox"/> This permit voids & supersedes # _____ issued: _____<br><input type="checkbox"/> _____ | Application Received  |
|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Application Completed |
|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Permit Issued         |
|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Permit Extended       |
|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Permit Amended        |
|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Permit Number         |

(WisDOT Authorized Representative Signature – If filled via computer, Brush Script font)

# APPLICATION/PERMIT TO CONSTRUCT, OPERATE AND MAINTAIN UTILITY FACILITIES ON HIGHWAY RIGHT-OF-WAY *(continued)*

Wisconsin Department of Transportation

DT1553

Use this section to provide information that does not fit on front page

## INDEMNIFICATION

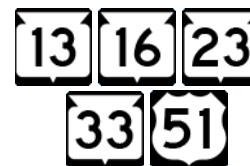
This Applicant shall save and hold the State, its officers, employees, agents, and all private and governmental contractors and subcontractors with the State under Chapter 84 Wisconsin Statutes harmless, as allowed by Wisconsin law, from actions of any nature whatsoever (including any by Applicant itself) which arise out of, or are connected with, or are claimed to arise out of or be connected with any of the work done by the Applicant, or the construction or maintenance of facilities by the Applicant, pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, (1) while the Applicant is performing its work, or (2) while any of the Applicant's property, equipment, or personnel, are in or about such place or the vicinity thereof, or (3) while any property constructed, placed or operated by or on behalf of Applicant remains on the State's property or right-of-way pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way; including without limiting the generality of the foregoing, all liability, damages, loss expense, claims, demands and actions on account of personal injury, death or property loss to the State, its officers, employees, agents, contractors, subcontractors or frequenters; to the Applicant, its employees, agents, contractors, subcontractors, or frequenters; or to any other persons, whether based upon, or claimed to be based upon, statutory (including, without limiting the generality of the foregoing, worker's compensation), contractual, tort, or whether or not caused or claimed to have been caused by active or inactive negligence or other breach of duty by the State, its officers, employees, agents, contractors, subcontractors or frequenters; Applicant, its employees, agents, contractors, subcontractors or frequenters; or any other person.

Without limiting the generality of the foregoing, the liability, damage, loss, expense, claims, demands and actions indemnified against shall include all liability, damage, loss, expense, claims, demands and actions for damage to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way in the past or present, or that are located on any highway or State property or right-of-way with or without a permit issued by the State, for any loss of data, information, or material; for trademark, copyright or patent infringement; for unfair competition or infringement of personal or property rights of any kind whatever. The Applicant shall at its own expense investigate all such claims and demands, attend to their settlement or other disposition, defend all actions based thereon and pay all charges of attorneys and all other costs and expenses of any kind arising from any such liability, damage, loss, claims, demands and actions.

Any transfer, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit shall not release Applicant from any of the indemnification requirements of this permit, unless the State is notified of such transfer in writing. Any acceptance by any other person or entity, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit, shall include acceptance of all of the indemnification requirements of this permit by the other person or entity receiving ownership or control.



**SUPPLEMENTAL PERMIT PROVISIONS**  
**Columbia County Sheriff's Office**  
**Automated License Plate Reader Cameras**  
**Permit #001391 Issued 11/30/22**  
**USH 51, WIS 13-16-23-33**



**Town of Caledonia & Leeds, City of Columbus & Wisconsin Dells**  
**Columbia County**

**PROJECT DESCRIPTION.** The Columbia County Sheriff's Office (CCSO) is installing automated license plate reader (ALPR) cameras at various locations in State Highway right of way (within the county) as an aid in preventing and solving crimes. Ten of the ALPRs will be located on state highways. One was previously permitted under #001372 on 10/19/22 in the Village of Pardeeville. The use of the cameras is considered a communications-type utility and is allowed under WisDOT's Utility Accommodation Policy [HMM 09-15-65](#), 4.1.

1. **LEGAL USE.** Surveillance cameras shall only be used as allowed by Wisconsin statutes. For example, the use of cameras is currently *prohibited* to enforce red light running at traffic signals.
2. **REVOCATION BY WisDOT.** WisDOT may revoke this permit if its own use or sale of the right-of-way (ROW) would be facilitated by relocation of CCSO's facility and shall provide CCSO with written notice a minimum of one year prior to such revocation. During this period, WisDOT shall work with CCSO to find a suitable replacement area on ROW near the terminated location. WisDOT shall not compensate CCSO to move its facility within the ROW in keeping with WisDOT's policy on compensable and non-compensable utility facility moves. If necessary to maintain uninterrupted service, CCSO shall be allowed to temporarily locate in WisDOT ROW at a mutually acceptable location for up to 180 days during the relocation of its facilities to the permanent site.
3. **PERMIT TERM.** This permit is valid for as long as CCSO continues to own, operate and maintain its facilities within WisDOT ROW in accordance with the terms of its permit and WisDOT's [Utility Accommodation Policy](#).
4. **TERMINATION BY PERMITTEE.** CCSO may terminate this permit upon 30 days written notice to WisDOT. Upon such termination, CCSO shall remove its facility from the ROW unless WisDOT notifies CCSO that WisDOT will take over operation and maintenance of the facility for its own traffic operations.

**WORK RESTRICTIONS.** CCSO is authorized to work weekdays between sunrise and sunset. Weekend work may be allowed upon prior approval from WisDOT. No work shall be done, and all work zone traffic control shall be removed, when the pavement is covered with ice or snow, or during winter maintenance pavement brining applications, salt spreading, or plowing operations. **Proposed poles shall be located a minimum of 10' from existing signs and posts.**

5. **WORK ZONE TRAFFIC CONTROL (WZTC).** All WZTC shall be in accordance with the [Wisconsin Manual on Uniform Traffic Control Devices](#) or the [Work Zone Field Manual](#). **Traffic control devices shall not encroach into the travel lane.**
6. **LANE CLOSURE SYSTEM NOTIFICATION.** To satisfy LCS requirements for WisDOT's [511 System](#), CCSO shall notify WisDOT a minimum of **seven calendar days** prior to **any lane or shoulder closure**. CCSO may use the [LCS Notification Worksheet](#) if needed and submit it to WisDOT's [Lee Gibbs](#) (608) 206-6428 for review. WisDOT may revise the information, but CCSO shall enter it into [LCS](#) unless notified by WisDOT that it will perform the entries. For **emergency** situations when any type of shoulder, lane, or road closure is required, CCSO shall call WisDOT's [Traffic Management Center](#) at 800-375-7302.

**TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION TO WISDOT**

| Closure type <b>with</b> height, weight, or width restrictions<br>(available width, all lanes in one direction <b>&lt; 16'</b> ) | MINIMUM NOTIFICATION |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Lane and shoulder closures                                                                                                       | 7 calendar days      |
| Full roadway closures                                                                                                            | 7 calendar days      |
| Ramp closures                                                                                                                    | 7 calendar days      |
| Detours                                                                                                                          | 7 calendar days      |
| Closure type <b>without</b> height, weight, or width restrictions<br>(available width, all lanes in one direction <b>≥ 16'</b> ) | MINIMUM NOTIFICATION |
| Lane and shoulder closures                                                                                                       | 3 business days      |
| Ramp closures                                                                                                                    | 3 business days      |
| Modifying all closure types                                                                                                      | 3 business days      |

7. **WORK AREA PROTECTION DURING NON-WORK TIMES.** CCSO shall store its equipment and materials off the ROW during non-work times if possible. If necessary, CCSO may store its equipment and materials on the ROW provided they are placed as close to the ROW line as possible and outside the clear zone. CCSO shall ensure that any excavation left open during non-work times is well marked and secured from public intrusion.
8. **ROW RESTORATION.** CCSO shall restore any WisDOT ROW disturbed to its original (as best as practical) condition within **two weeks** after installing its facilities. WisDOT may allow time extensions for restoration in the case of inclement weather, poor soil conditions, or if CCSO's operations would track over the same disturbed areas – provided that proper erosion control devices are in place to protect the disturbed areas.

Should future maintenance work on CCSO's facilities result in the disturbance of the existing ROW, CCSO shall restore the ROW to its original condition as soon as possible. The basic drainage pattern of the highway shall remain undisturbed by the permitted work. Upon project completion, all spoils, debris, refuse, and waste resulting from the permitted work shall be removed from the work site. **Send pictures of completed installations to [DOT CO ROW Permits](#).**

9. **CONSTRUCTION NOTIFICATIONS.** CCSO shall contact the Southwest Region utility permit coordinator, **Noah DuFoe-Guiles 608-246-5629** or [email](#) at least three working days prior to the start of construction.

CCSO shall call Diggers' Hotline 800-242-8511 at least three working days prior to the start of any excavation.

CCSO shall provide WisDOT with the names and telephone numbers of the people in charge of its field operations. This includes people who are responsible for the overall project or separate crews and includes any contractors hired by CCSO. Field personnel shall have cellular phones that would enable a WisDOT representative to contact them at any time.

10. **LONGITUDINAL & VERTICAL LOCATION.** CCSO shall place its facilities as shown on the approved permit drawings. Deviations from this location may be allowed but shall first be approved by WisDOT. Revised plan sheets showing the approved deviations should be sent to WisDOT after completion.
11. **EROSION CONTROL.** A formal erosion control plan is not required if CCSO can perform construction in accordance with [HMM 09-15-55](#) and [Trans 401](#). However, if any excavation remains open for more than 24 hours, then a formal erosion control plan shall be submitted to WisDOT and this provision revised accordingly. In either case, CCSO shall use the appropriate erosion control best management practices (BMPs) to contain soil directly at the site to prevent disturbed soil from getting into nearby waterways and wetlands. Storm sewer and pipe underdrain inlets shall be protected with filter fabric if necessary.

All appropriate erosion control BMPs shall be in place **prior to starting construction activities**. Temporary seeding shall be used as necessary after rough grading and before project completion. CCSO shall ensure that erosion control measures used to protect restored areas remain in place until replacement vegetation achieves sustained growth. Rutting due to vehicle or equipment tracks shall be smoothed out at the end of each day. CCSO shall take every precaution necessary to prevent mud, dirt, or other debris from being deposited onto a travel lane or shoulder. Any materials deposited on the pavement shall be promptly removed.

12. **PERMIT AT SITE.** During the performance of work described in this permit, CCSO and/or its contractor(s) or subcontractor(s) shall have a fully signed and executed copy of the permit on site, **which may in electronic format**. Failure to do so may cause a temporary shutdown of the work. Repeated offenses may cause this permit to become null and void and if so, the work shall not be completed unless authorized through a subsequent permit.
13. **WisDOT MAINTENANCE COORDINATION.** CCSO shall contact Ryan Murray, WisDOT Maintenance Coordinator, (608) 513-3985 or [ryan.murray@dot.wi.gov](mailto:ryan.murray@dot.wi.gov) if there are any highway maintenance, operation, or related issues.

This permit is subject to the attached drawings, these supplemental provisions, and WisDOT's *Utility Accommodation Policy*. New supplemental provisions may be added, or the existing ones deleted or amended in the future as different issues arise during the installation, operation, and maintenance of the permittee's facilities.



**Lane Closure System (LCS) Notification Worksheet**  
(Permittee will enter the data into the LCS)



**General Section:**

1. Permit Number
2. General Description (brief description of the type of work)
3. County (Begin/End if different)
4. Highway/Direction
5. Primary Contact (WisDOT Regional Permit Coordinator)
6. Emergency Traffic Control Contractor Contact (name/number: 24-hour contact)
7. Secondary Contact (other WisDOT contact names if applicable)
8. Law Enforcement Contact (if applicable)
9. Other Contact (such as contractor or utility name/number)

**Each Facility:**

1. Type (mainline, ramp, bridge, system interchange)
2. Closure/Restriction (lanes/shoulders affected)
3. Duration (daily/nightly, weekly, continuous, long term)
4. Begin/End Date
5. Begin/End Time
6. Begin/End Location
7. Oversize/Overweight Restrictions (height, width, weight restrictions if applicable)
8. Detour Route (if applicable)

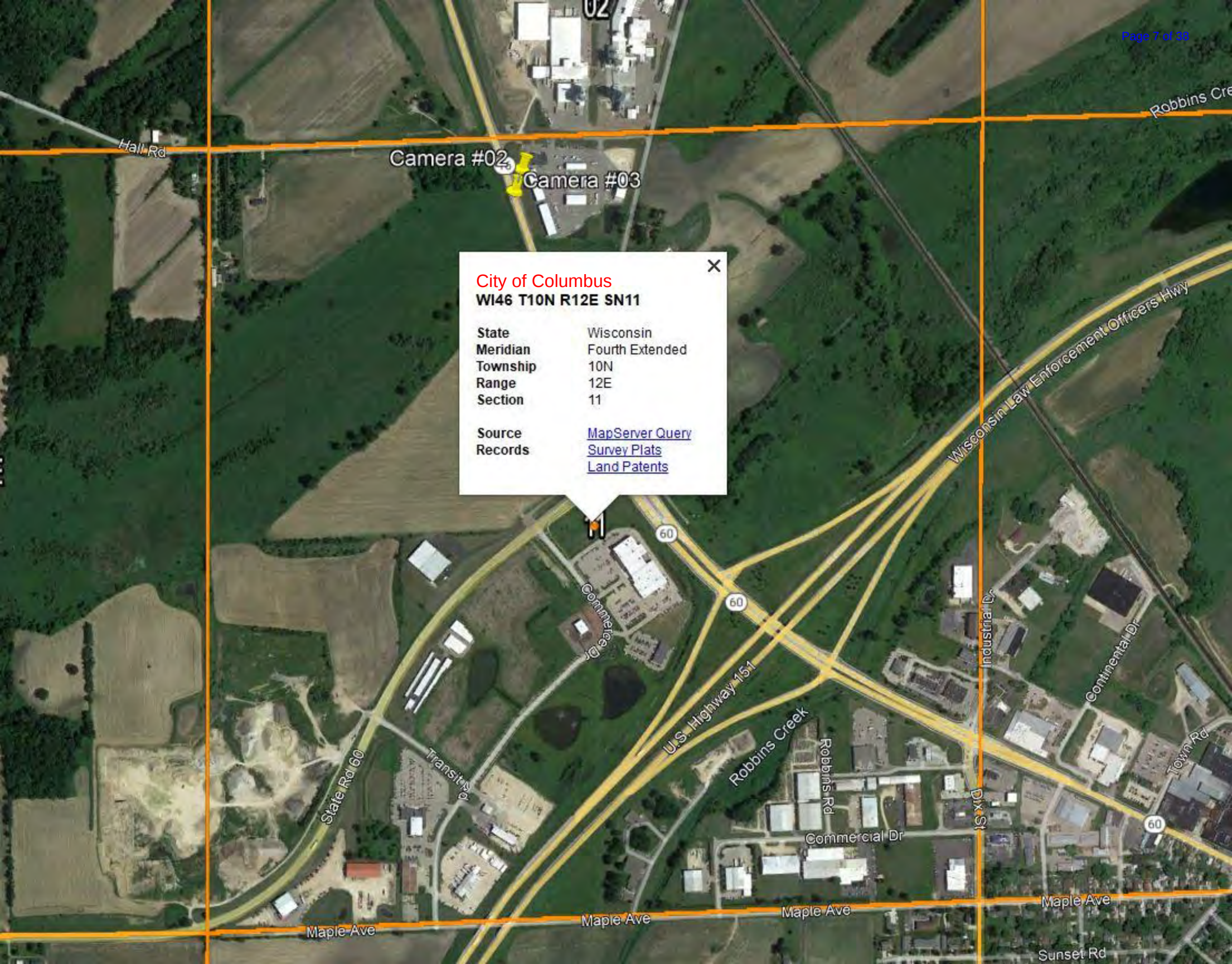


**Town of Leeds**  
**WI46 T10N R10E SN16**

|          |                 |
|----------|-----------------|
| State    | Wisconsin       |
| Meridian | Fourth Extended |
| Township | 10N             |
| Range    | 10E             |
| Section  | 16              |

|         |                                 |
|---------|---------------------------------|
| Source  | <a href="#">MapServer Query</a> |
| Records | <a href="#">Survey Plats</a>    |
|         | <a href="#">Land Patents</a>    |





Camera #02

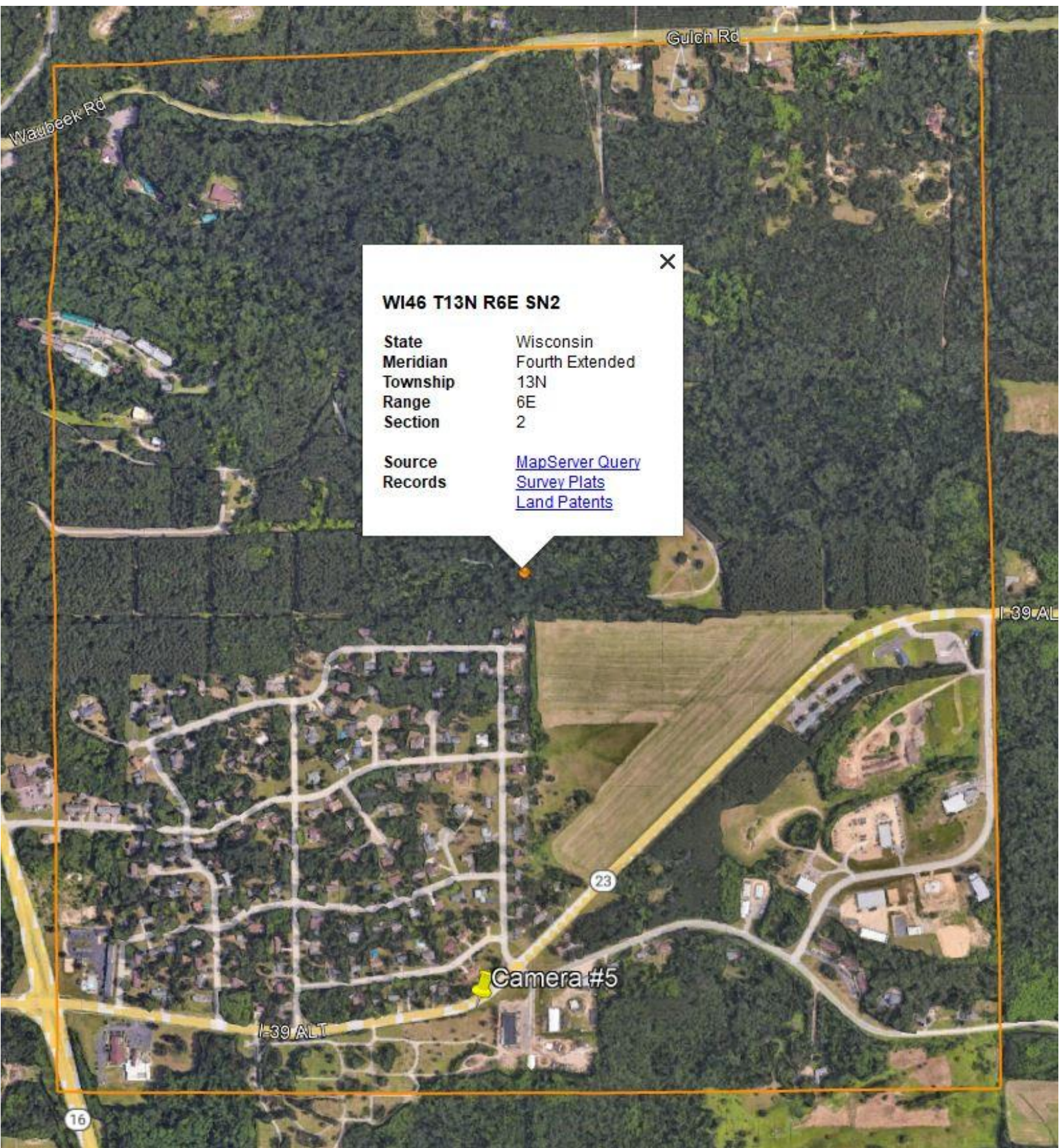
Camera #03

City of Columbus  
WI46 T10N R12E SN11

|          |                 |
|----------|-----------------|
| State    | Wisconsin       |
| Meridian | Fourth Extended |
| Township | 10N             |
| Range    | 12E             |
| Section  | 11              |

|         |                                                              |
|---------|--------------------------------------------------------------|
| Source  | <a href="#">MapServer Query</a>                              |
| Records | <a href="#">Survey Plats</a><br><a href="#">Land Patents</a> |





**WI46 T13N R6E SN2**

|          |                 |
|----------|-----------------|
| State    | Wisconsin       |
| Meridian | Fourth Extended |
| Township | 13N             |
| Range    | 6E              |
| Section  | 2               |

|         |                                 |
|---------|---------------------------------|
| Source  | <a href="#">MapServer Query</a> |
| Records | <a href="#">Survey Plats</a>    |
|         | <a href="#">Land Patents</a>    |



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**City of Wisconsin Dells**  
**WI46 T13N R6E SN3**

X

|          |                 |
|----------|-----------------|
| State    | Wisconsin       |
| Meridian | Fourth Extended |
| Township | 13N             |
| Range    | 6E              |
| Section  | 3               |

|         |                                                              |
|---------|--------------------------------------------------------------|
| Source  | <a href="#">MapServer Query</a>                              |
| Records | <a href="#">Survey Plats</a><br><a href="#">Land Patents</a> |

03

13N 6E

13

02

River Rd

Waubeek Rd

Camera #06

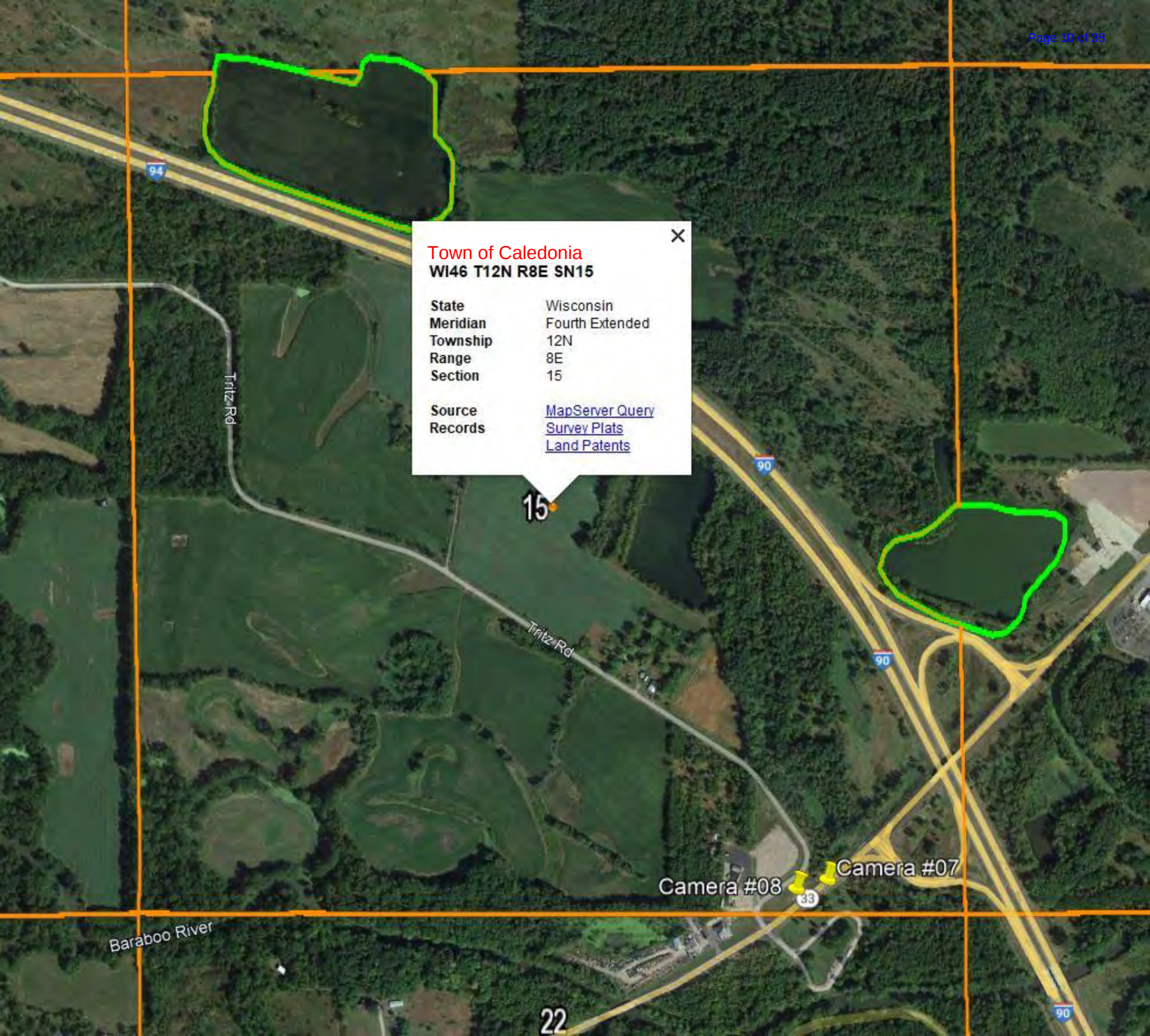
Wisconsin Dells

I-39 ALT

16

Goo





**Town of Caledonia**  
**WI46 T12N R8E SN15**

|          |                 |
|----------|-----------------|
| State    | Wisconsin       |
| Meridian | Fourth Extended |
| Township | 12N             |
| Range    | 8E              |
| Section  | 15              |

|         |                                 |
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| Records | <a href="#">Survey Plats</a>    |
|         | <a href="#">Land Patents</a>    |

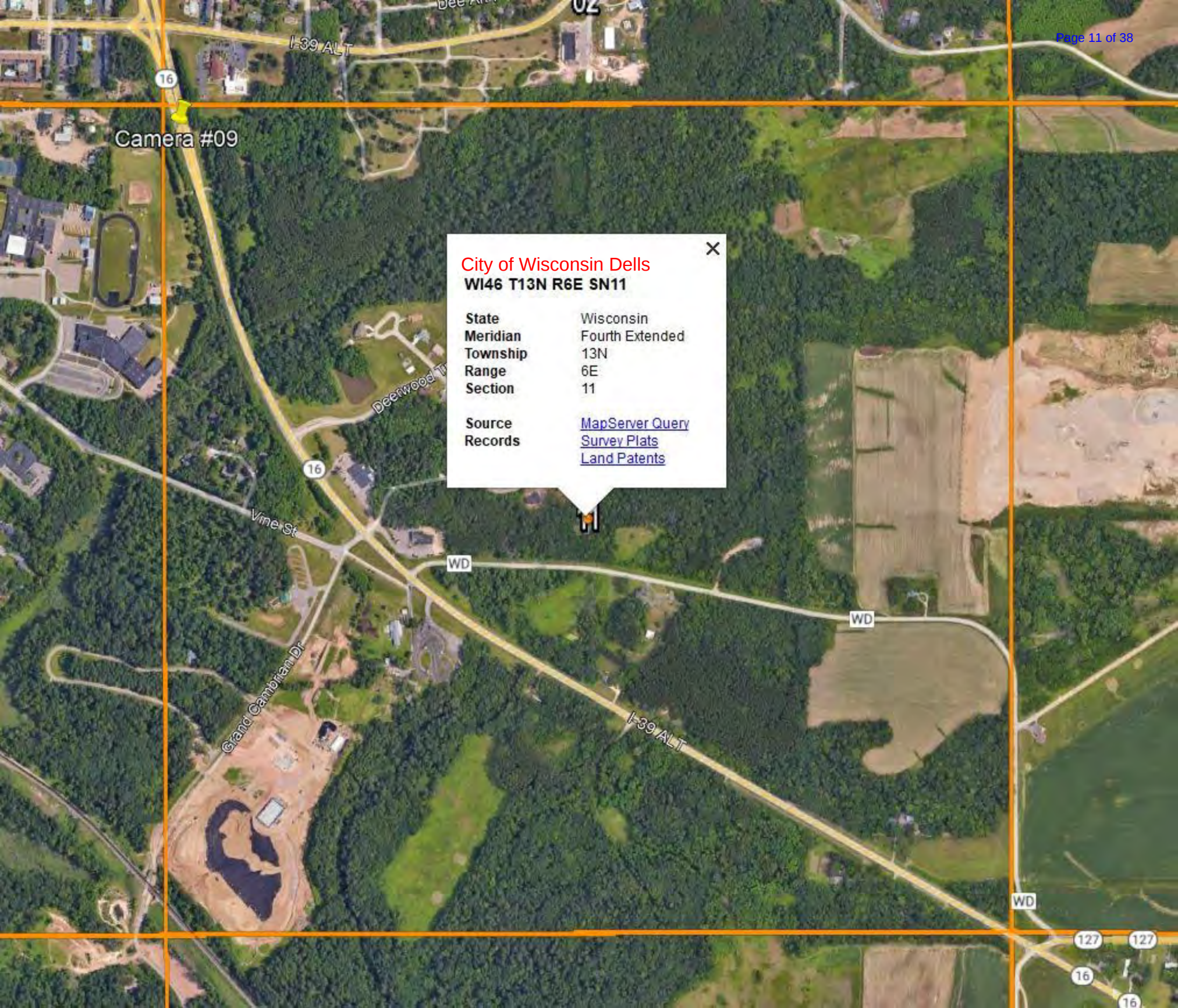


Camera #09

**City of Wisconsin Dells**  
**WI46 T13N R6E SN11**

|          |                 |
|----------|-----------------|
| State    | Wisconsin       |
| Meridian | Fourth Extended |
| Township | 13N             |
| Range    | 6E              |
| Section  | 11              |

|         |                                 |
|---------|---------------------------------|
| Source  | <a href="#">MapServer Query</a> |
| Records | <a href="#">Survey Plats</a>    |
|         | <a href="#">Land Patents</a>    |





**WI46 T10N R10E SN33**

|          |                 |
|----------|-----------------|
| State    | Wisconsin       |
| Meridian | Fourth Extended |
| Township | 10N             |
| Range    | 10E             |
| Section  | 33              |

|         |                                 |
|---------|---------------------------------|
| Source  | <a href="#">MapServer Query</a> |
| Records | <a href="#">Survey Plats</a>    |
|         | <a href="#">Land Patents</a>    |

33

Camera #10



# Flock Safety Tech Specs

License plate reading cameras that capture more evidence for your city.



## Dual Solar Panels

- Voltage: 18-20V
- Weight: 25.73 lbs (with hardware)
- Length: 21.25"
- Width: 28"
- Mount: Pole top or side of existing pole

## Pole

- DOT breakaway pole - 12' installed height
- Diameter: 2.875" OD, 2.125" ID
- Material: 6061 Aluminum w/ black coating
- Alloy: 6061
- Weight: 32 lbs

## Camera

- Length: 10.5"
- Height: 4.5"
- Depth: 5.5"
- Mounting: Adjustable band clamps
- Weight: 3.6 lbs
- Footage: Uploads via LTE
- Capture Distance: 20-90ft from vehicle
- Deployment Distance: Up to 25' from edge of roadway
- Resolution: 2508x2048
- Vehicle Speed: up to 100 MPH
- Assembly: Flock Safety in Atlanta, GA



## Install Anywhere



Solar &  
Existing Pole



Solar &  
Flock Pole



Electric &  
Existing Pole





COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

JURISDICTION:

WISCONSIN  
DEPARTMENT OF  
TRANSPORTATION

SITE IDENTIFICATION

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
711 E COOK ST.  
PORTAGE, WI 53901  
(651) 371-7765



FLOCK SAFETY  
1170 HOWELL MILL ROAD NW  
SUITE 210  
ATLANTA, GA 30318  
PERMIT@FLOCKSAFETY.COM  
415-669-0341

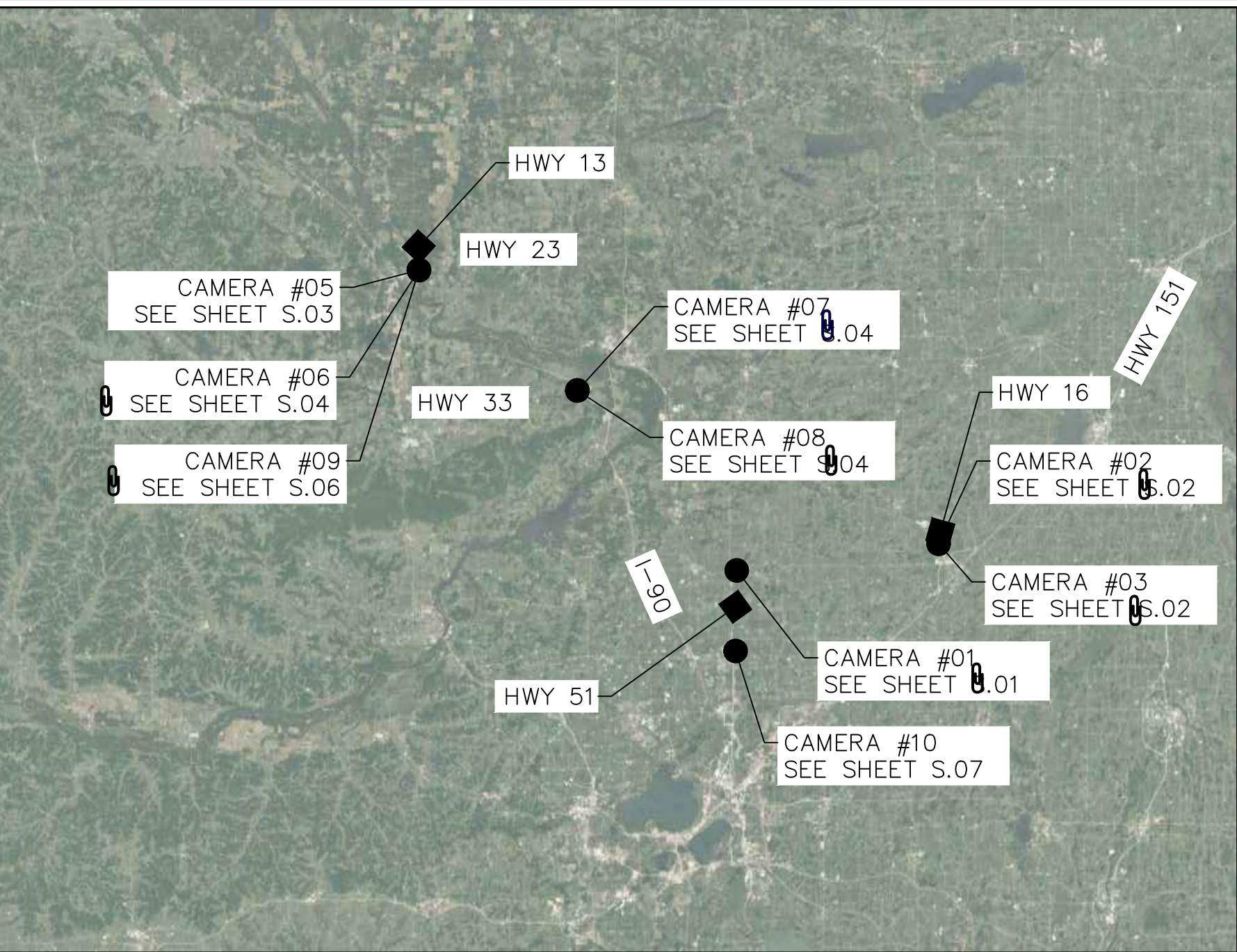


KIMLEY-HORN AND ASSOCIATES, INC.  
817 W PEACHTREE STREET, SUITE 601  
ATLANTA, GA 30308 PHONE: (312) 401-6614  
ATTN.: TRACY LEHMAN, P.E.

PROJECT TEAM

INSTALLATION OF NEW POLE IN EXISTING RIGHT OF WAY SUPPORTING  
LICENSE PLATE READER CAMERA FOR THE COLUMBIA COUNTY  
SHERIFF'S OFFICE.

PROJECT SUMMARY



VICINITY MAP

| SHEET #     | SHEET TITLE                      | DRAWN BY |
|-------------|----------------------------------|----------|
| T.01        | TITLE SHEET                      | XQD      |
| T.02        | SYMBOLGY AND ABBREVIATIONS       | XQD      |
| S.01-S.07   | SITE PLANS                       | XQD      |
| D.01-D.04   | EQUIPMENT AND FOUNDATION DETAILS | XQD      |
| TC.01-TC.09 | TRAFFIC CONTROL PLANS            | WRB      |
|             |                                  |          |
|             |                                  |          |
|             |                                  |          |
|             |                                  |          |
|             |                                  |          |

SHEET INDEX



Know what's below.  
Call before you dig.



PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

PLANS PREPARED BY:



817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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| 2 | 04/13/23 | PERMITTING | MRD |
| 1 | 11/16/22 | PERMITTING | MRD |
| 0 | 10/20/22 | PERMITTING | MRD |

LICENSER:



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

XQD

TLL

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T.01



1. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND FLOCK SAFETY PROJECT SPECIFICATIONS.
2. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR ARE TO BE RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS, DIMENSIONS, AND THE LOCATION OF BURIED UTILITIES AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF WORK. NO CLAIMS FOR EXTRA COMPENSATION FOR WORK RESULTING FROM CONFLICTS AND OMISSIONS WHICH COULD HAVE BEEN DISCOVERED BY FIELD VERIFICATION AND INSPECTION, WHETHER INDICATED IN THE CONTRACT DOCUMENTS OR NOT WILL BE ENTERTAINED OR PAID.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFIRM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
10. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
11. FLOCK SAFETY AND CONTRACTOR ARE SOLELY RESPONSIBLE FOR DETERMINATION AND CONFIRMATION THAT THE PROPOSED POLE LOCATION IS WITHIN THE PUBLIC RIGHT OF WAY. SITE PLAN AND ALL REPRESENTATION OF RIGHT OF WAY PROPERTY LINES ARE APPROXIMATE BY NATURE AND HAVE BEEN PRODUCED WITHOUT THE BENEFIT OF A PROFESSIONAL LAND SURVEY.

1. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH APPLICABLE LAYOUTS FROM THE MOST RECENT VERSION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) WISCONSIN WORK ZONE FIELD MANUAL ([HTTPS://WISCONSINDOT.GOV/DTSDMANUALS/TRAFFIC-OPS/MANUALS-AND-STANDARDS/WZFM/WZFM.PDF](https://wisconsinidot.gov/dtsdmanuals/traffic-ops/manuals-and-standards/wzfm/wzfm.pdf)) AND IN ACCORDANCE WITH THE WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).
2. CONTRACTOR SHALL MEET THE TRAFFIC CONTROL DEVICE QUALITY STANDARDS AS REQUIRED IN THE FIELD MANUAL AND SHALL IMMEDIATELY REPLACE UNACCEPTABLE TRAFFIC CONTROL DEVICES. SIGNS THAT ARE DIRTY AND RESULT IN A NOTICEABLE LOSS OF REFLECTIVITY AT NIGHT ARE CONSIDERED UNACCEPTABLE AND MUST BE CLEANED OR REPLACED.
3. CONTRACTOR SHALL RESPOND PROMPTLY TO ANY CALL FROM THE ENGINEER CONCERNING THE NOTIFICATION OF UNACCEPTABLE TRAFFIC CONTROL DEVICES.
4. LAYOUTS FROM THE WISCONSIN WORK ZONE FIELD MANUAL ANTICIPATED TO BE UTILIZED, BUT MAY NOT BE FULLY INCLUSIVE OF ALL APPLICABLE LAYOUTS, INCLUDE LAYOUT 6, 15, 38, 52, 53 AND 71.

[illegible]

EXISTING EASEMENT  
CONSTRUCTION FENCE  
EDGE OF PAVEMENT  
RIGHT OF WAY  
EXISTING WATER LINE  
EXISTING FIRE WATER LINE  
EXISTING IRRIGATION WATER LINE  
EXISTING SANITARY SEWER LINE  
EXISTING STORM DRAIN LINE  
EXISTING UNDERGROUND ELECTRIC LINE  
EXISTING GAS LINE  
EXISTING TELECOMMUNICATIONS LINE  
EXISTING UNKNOWN UTILITY LINE

WATER VALVE

FIRE HYDRANT

IRRIGATION VALVE

SEWER MANHOLE

SEWER CLEAN OUT

## STORM DRAIN MANHOLE

GRATED INLET

CATCH BASIN

LIGHT POST

ELECTRIC PULLBOX / E BOX

UTILITY VAULT

GAS VALVE

TREE

SIGN

BOLLARD

## DECORATIVE CONCRETE BALL

HANDICAP PARKING

## GREASE TRAP

## COMMUNICATION VAULTS

## SURVEY CONTROL POINTS

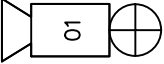
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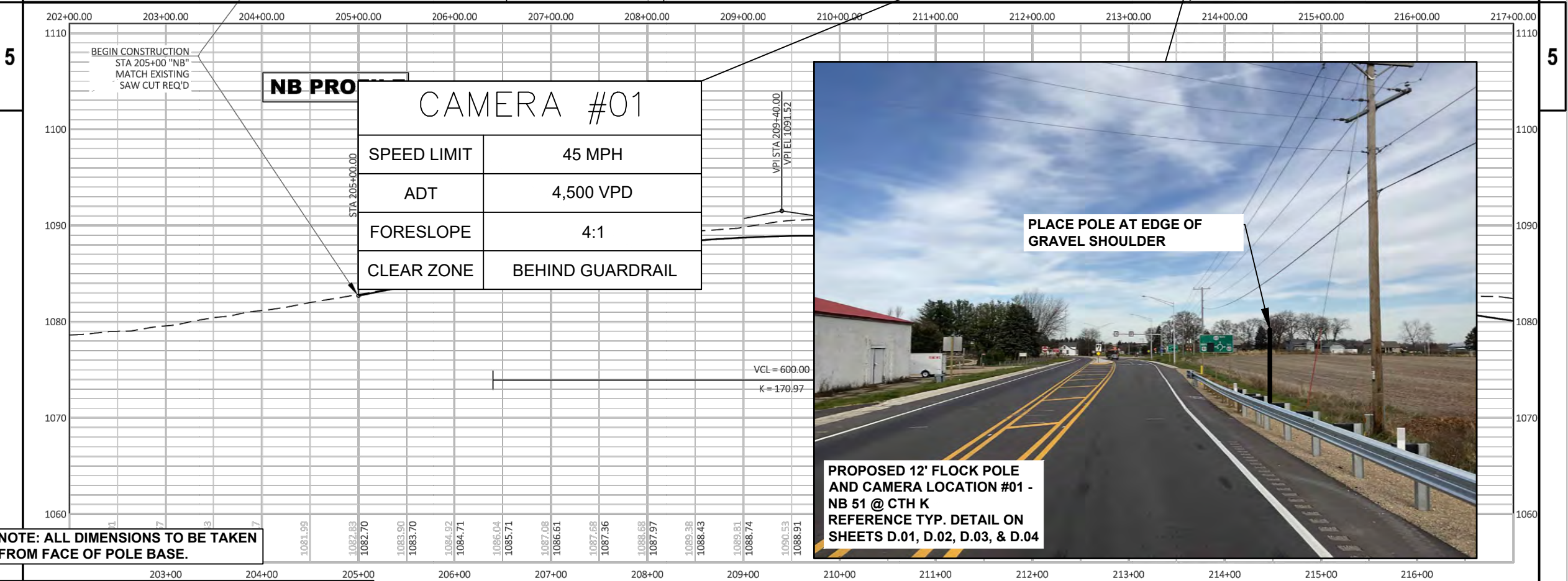
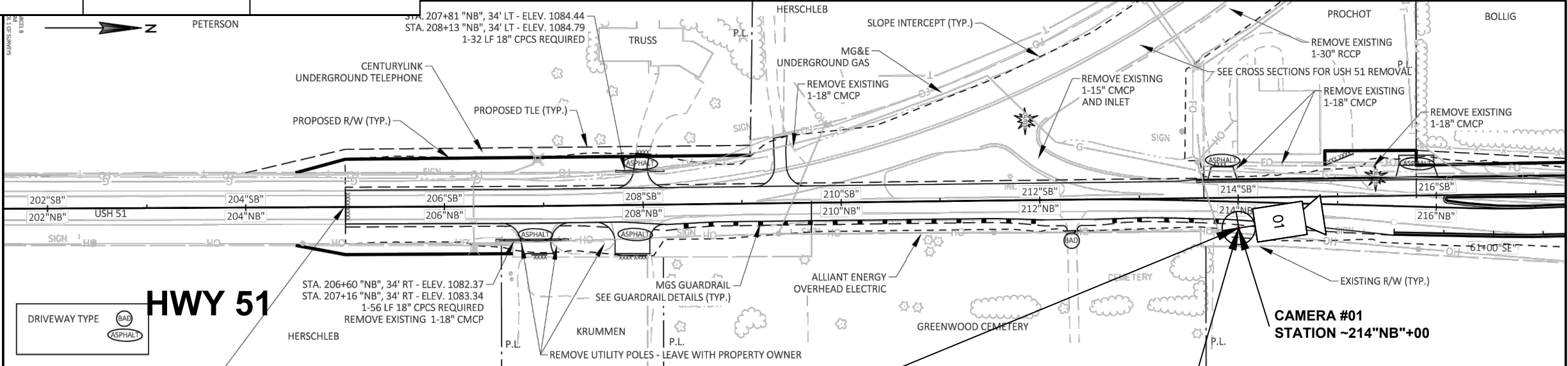
LICENSE PLATE READER CAMERA





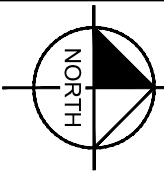
# CAMERA DETAILS

| CAMERA                                                                            | NUMBER & LOCATION   | COORDINATES (N,W)     |
|-----------------------------------------------------------------------------------|---------------------|-----------------------|
|  | #01 - NB 51 @ CTH K | 43.330360, -89.325277 |



NOTE: ALL DIMENSIONS TO BE TAKEN FROM FACE OF POLE BASE.

NOT TO SCALE.



USH 51 COUNTY: COLUMBIA NB PLAN & PROFILE SHEET 121 E

PLOT DATE: 6/8/2021 11:03 AM PLOT BY: PAYNE, GREGORY A PLOT NAME: PLOT SCALE: 1 IN:100 FT WISDOT/CADDs SHEET 44

flock safety

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

PLANS PREPARED BY:

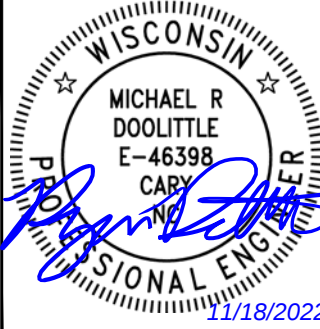
KimleyHorn

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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| 0 | 10/20/22 | PERMITTING | MRD |

LICENSER:



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

XQD

TLL

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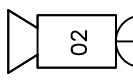
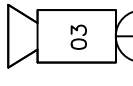
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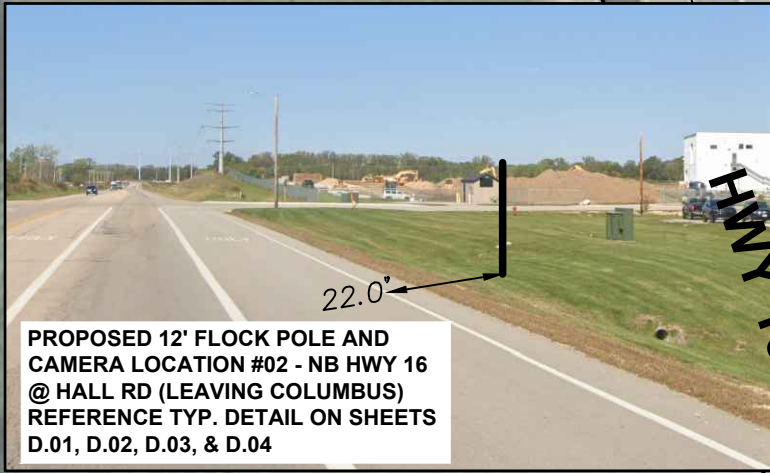
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S.01

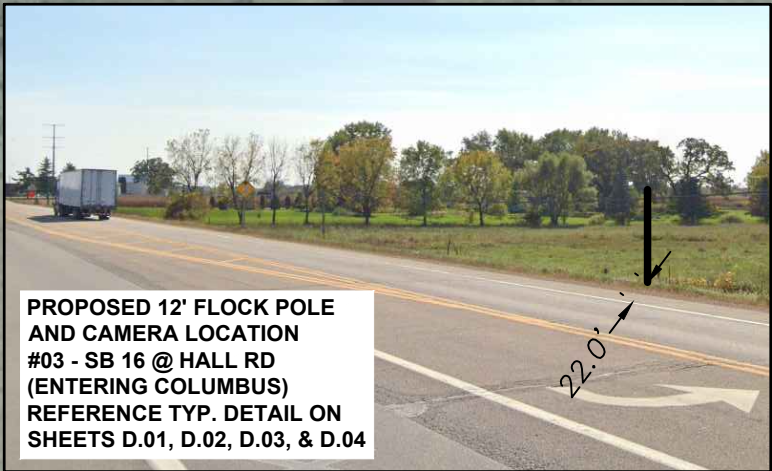


# CAMERA DETAILS

| CAMERA                                                                               | NUMBER & LOCATION                            | COORDINATES (N,W)     |
|--------------------------------------------------------------------------------------|----------------------------------------------|-----------------------|
|  02 | #02 - NB HWY 16 @ HALL RD (LEAVING COLUMBUS) | 43.355746, -89.040920 |
|  03 | #03 - SB 16 @ HALL RD (ENTERING COLUMBUS)    | 43.355337, -89.041111 |



PROPOSED 12' FLOCK POLE AND CAMERA LOCATION #02 - NB HWY 16 @ HALL RD (LEAVING COLUMBUS) REFERENCE TYP. DETAIL ON SHEETS D.01, D.02, D.03, & D.04

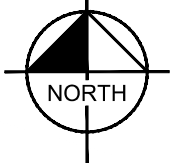
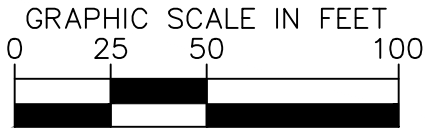


PROPOSED 12' FLOCK POLE AND CAMERA LOCATION #03 - SB 16 @ HALL RD (ENTERING COLUMBUS) REFERENCE TYP. DETAIL ON SHEETS D.01, D.02, D.03, & D.04

| CAMERA #02  |           |
|-------------|-----------|
| SPEED LIMIT | 55 MPH    |
| ADT         | 8,800 VPD |
| FORESLOPE   | 6:1       |
| CLEAR ZONE  | 22-24'    |

| CAMERA #03  |           |
|-------------|-----------|
| SPEED LIMIT | 55 MPH    |
| ADT         | 8,800 VPD |
| FORESLOPE   | 6:1       |
| CLEAR ZONE  | 22-24'    |

NOTE: ALL DIMENSIONS TO BE TAKEN FROM FACE OF POLE BASE.



flock safety™

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

PLANS PREPARED BY:

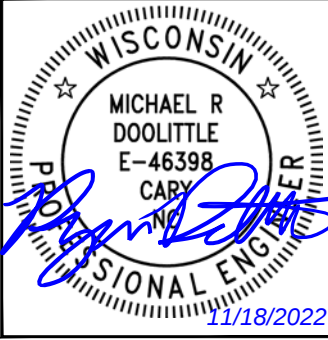
**Kimley»Horn**

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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| 1 | 11/16/22 | PERMITTING | MRD |
| 0 | 10/20/22 | PERMITTING | MRD |

LICENSER:



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

XQD

TLL

SHEET TITLE:

**SITE PLAN**

SHEET NUMBER:

S.02





PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

PLANS PREPARED BY:



817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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LICENSER:

KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

XQD

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SITE PLAN

SHEET NUMBER:

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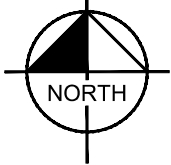
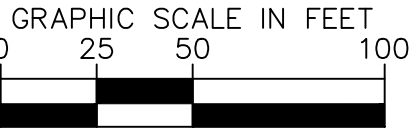
# CAMERA DETAILS

| CAMERA | NUMBER & LOCATION        | COORDINATES (N,W)                     |
|--------|--------------------------|---------------------------------------|
|        | #05 - EB HWY 23 @ HWY 16 | 43.62743733155548, -89.74988584436574 |

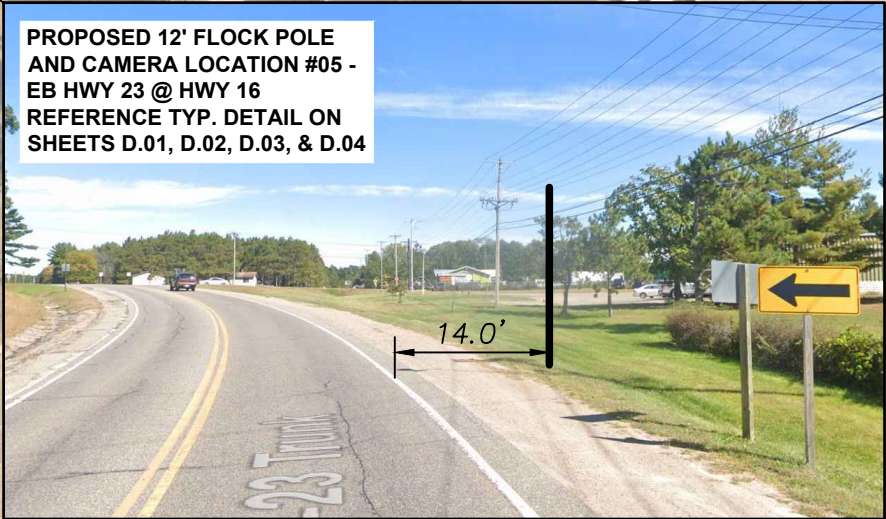
## CAMERA #05

|             |            |
|-------------|------------|
| SPEED LIMIT | 40 MPH     |
| ADT         | 10,500 VPD |
| FORESLOPE   | 6:1        |
| CLEAR ZONE  | 14-16'     |

NOTE: ALL DIMENSIONS TO BE TAKEN FROM FACE OF POLE BASE.



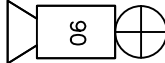
PROPOSED 12' FLOCK POLE AND CAMERA LOCATION #05 - EB HWY 23 @ HWY 16  
REFERENCE TYP. DETAIL ON SHEETS D.01, D.02, D.03, & D.04

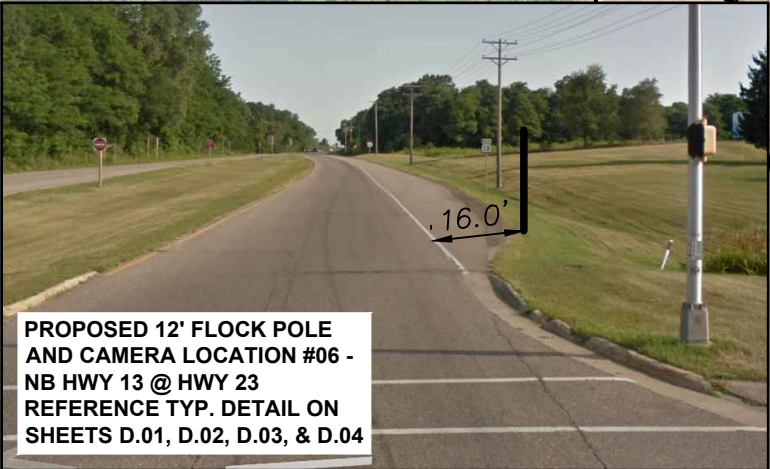


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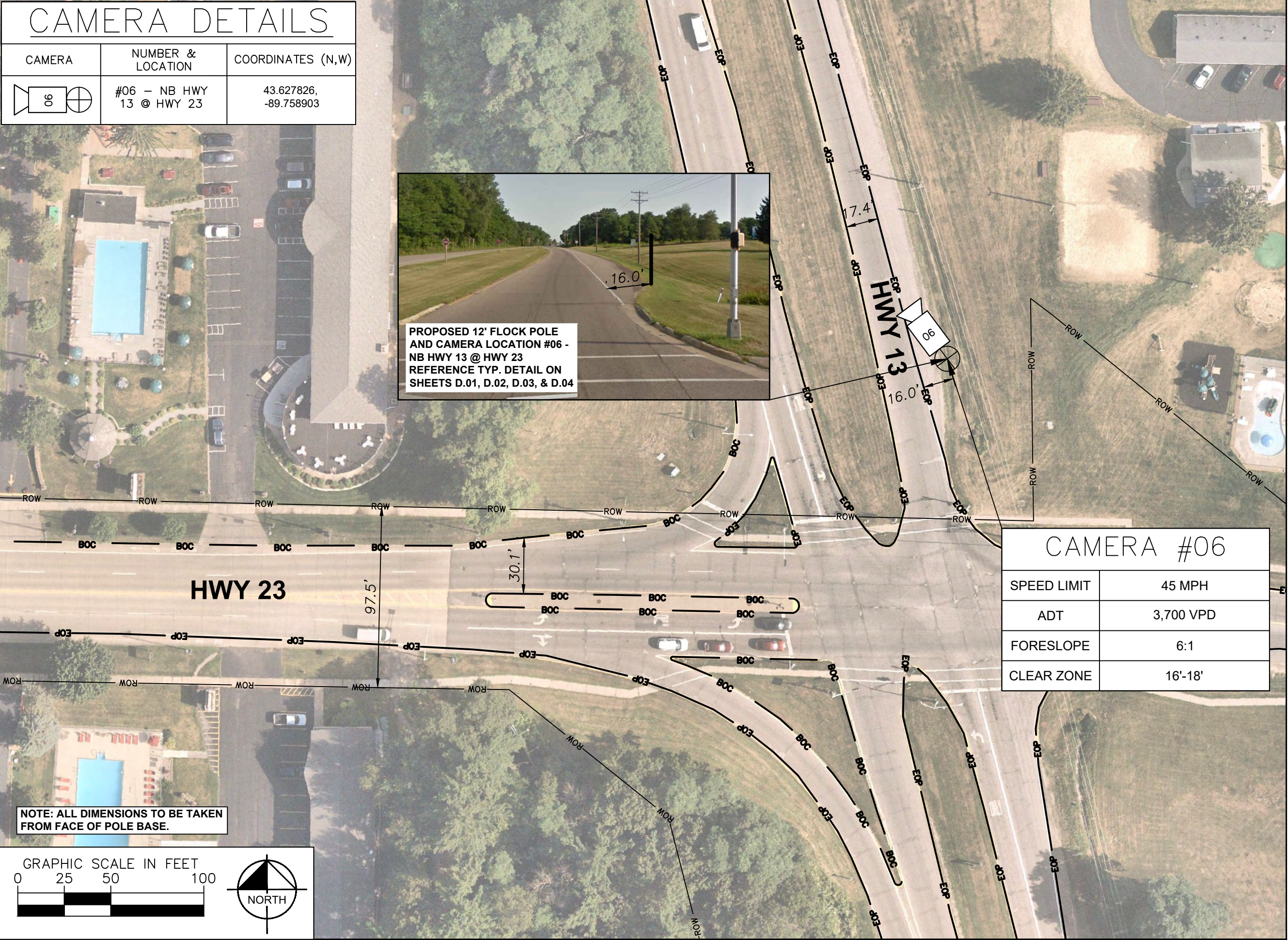


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| CAMERA DETAILS                                                                    |                          |                       |
|-----------------------------------------------------------------------------------|--------------------------|-----------------------|
| CAMERA                                                                            | NUMBER & LOCATION        | COORDINATES (N,W)     |
|  | #06 - NB HWY 13 @ HWY 23 | 43.627826, -89.758903 |

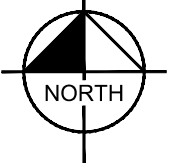
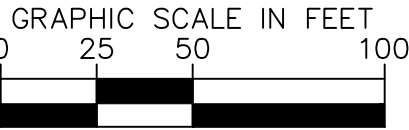


PROPOSED 12' FLOCK POLE AND CAMERA LOCATION #06 - NB HWY 13 @ HWY 23  
REFERENCE TYP. DETAIL ON SHEETS D.01, D.02, D.03, & D.04



| CAMERA #06  |           |
|-------------|-----------|
| SPEED LIMIT | 45 MPH    |
| ADT         | 3,700 VPD |
| FORESLOPE   | 6:1       |
| CLEAR ZONE  | 16'-18'   |

NOTE: ALL DIMENSIONS TO BE TAKEN FROM FACE OF POLE BASE.



flock safety

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

PLANS PREPARED BY:

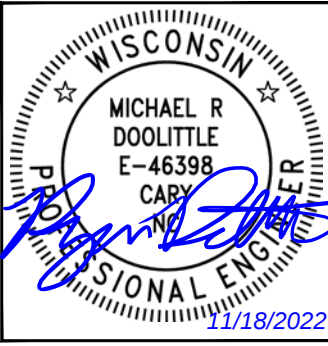
KimleyHorn

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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| 1 | 11/16/22 | PERMITTING | MRD |
| 0 | 10/20/22 | PERMITTING | MRD |

LICENSER:



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

XQD

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SHEET TITLE:

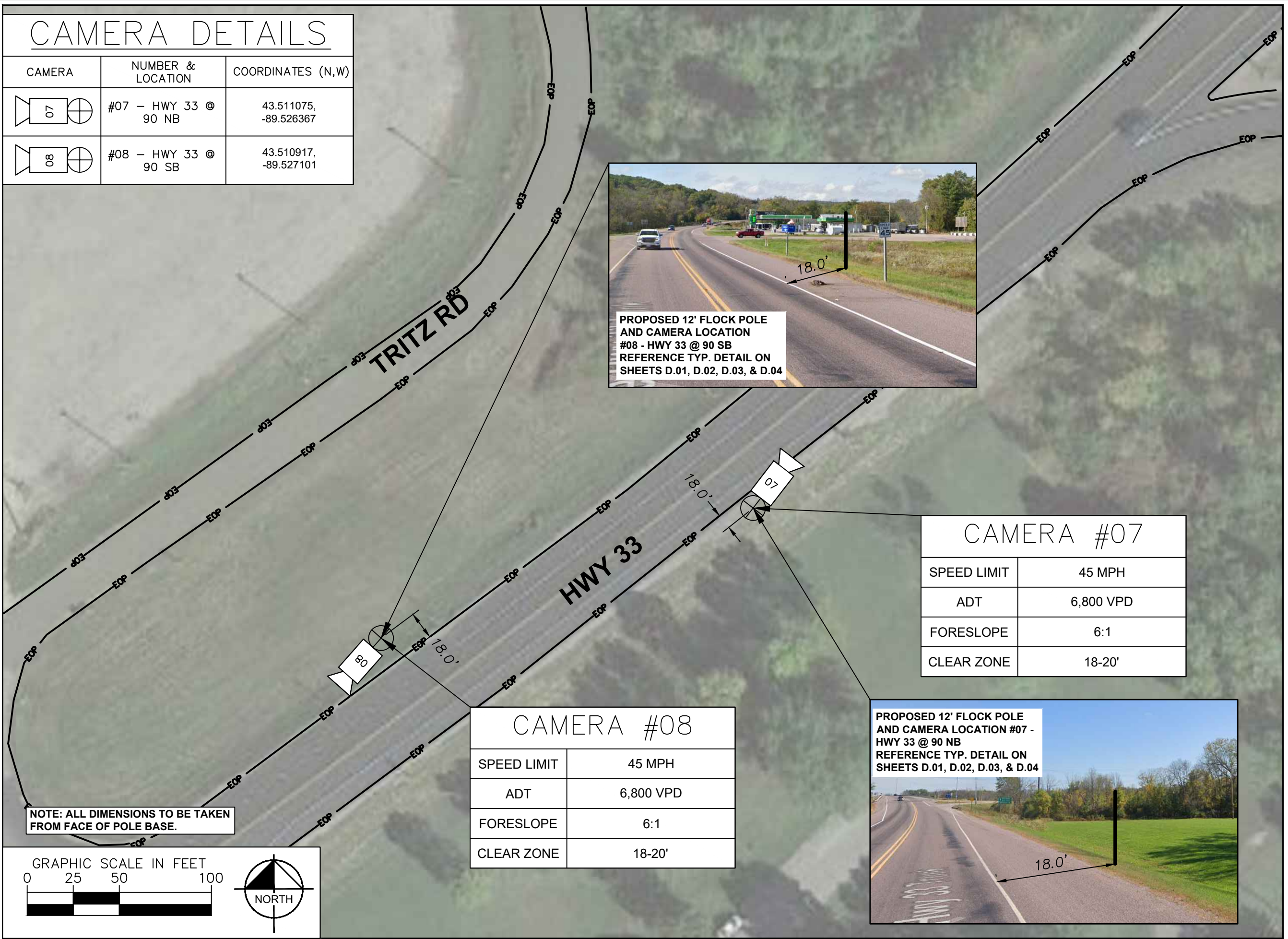
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SHEET NUMBER:

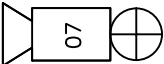
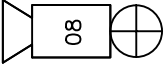
S.04



K:\ATL\_Wireless\Flock\167726\1 - KHATL - FLOCK - CD\CASE#167726\_FLOCK\_CD.dwg ----- 11/18/22 3:35 PM by: greg.vanmaaren



# CAMERA DETAILS

| CAMERA                                                                               | NUMBER & LOCATION    | COORDINATES (N,W)     |
|--------------------------------------------------------------------------------------|----------------------|-----------------------|
|  07 | #07 - HWY 33 @ 90 NB | 43.511075, -89.526367 |
|  08 | #08 - HWY 33 @ 90 SB | 43.510917, -89.527101 |

PROPOSED 12' FLOCK POLE AND CAMERA LOCATION #08 - HWY 33 @ 90 SB  
REFERENCE TYP. DETAIL ON SHEETS D.01, D.02, D.03, & D.04

PROPOSED 12' FLOCK POLE AND CAMERA LOCATION #07 - HWY 33 @ 90 NB  
REFERENCE TYP. DETAIL ON SHEETS D.01, D.02, D.03, & D.04

## CAMERA #07

|             |           |
|-------------|-----------|
| SPEED LIMIT | 45 MPH    |
| ADT         | 6,800 VPD |
| FORESLOPE   | 6:1       |
| CLEAR ZONE  | 18-20'    |

## CAMERA #08

|             |           |
|-------------|-----------|
| SPEED LIMIT | 45 MPH    |
| ADT         | 6,800 VPD |
| FORESLOPE   | 6:1       |
| CLEAR ZONE  | 18-20'    |

flock safety™

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

PLANS PREPARED BY:

Kimley»Horn

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PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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| 1 | 11/16/22 | PERMITTING | MRD |
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KHA PROJECT NUMBER:

014681000.1.299

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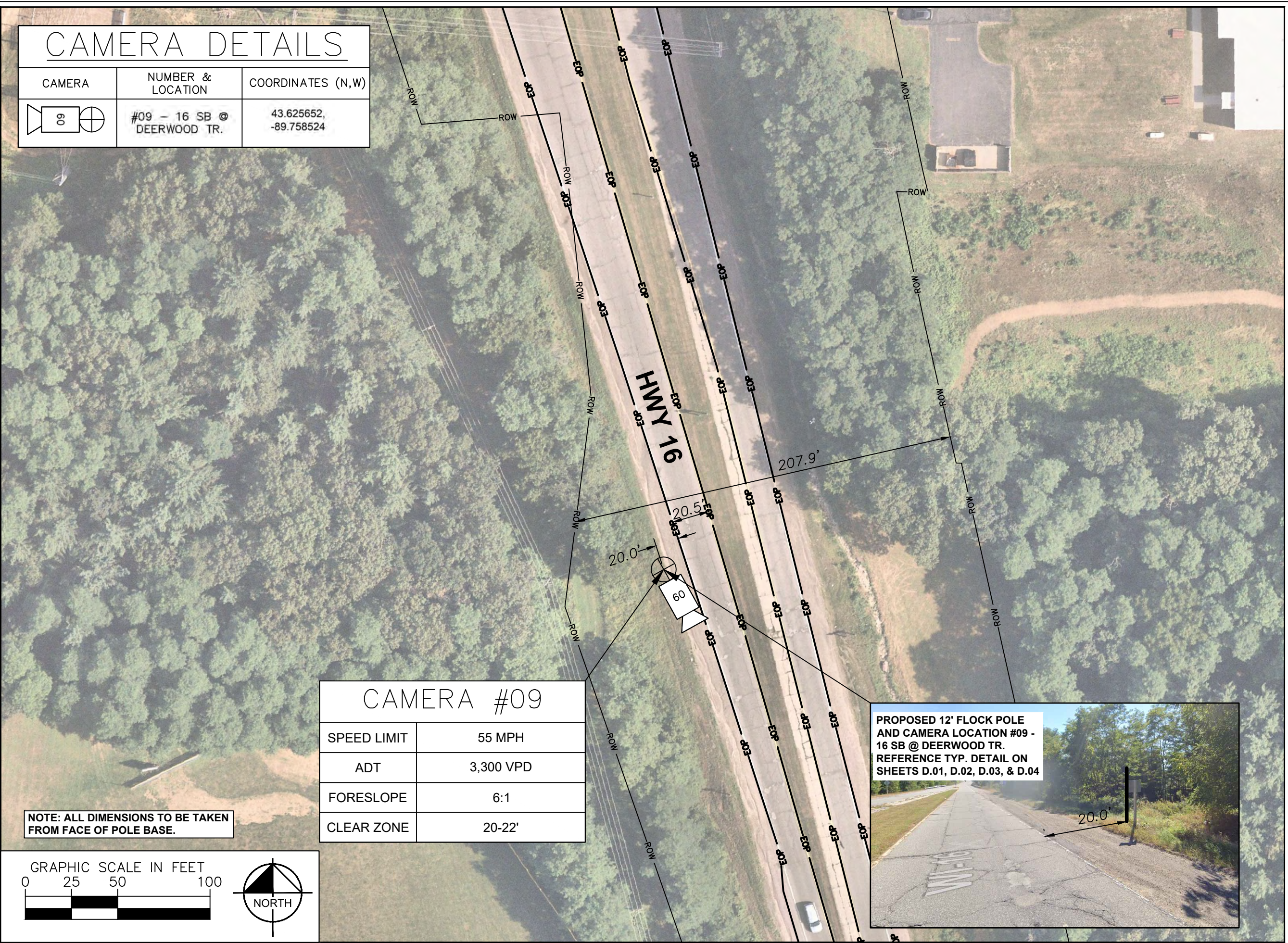
SITE PLAN

SHEET NUMBER:

S.05



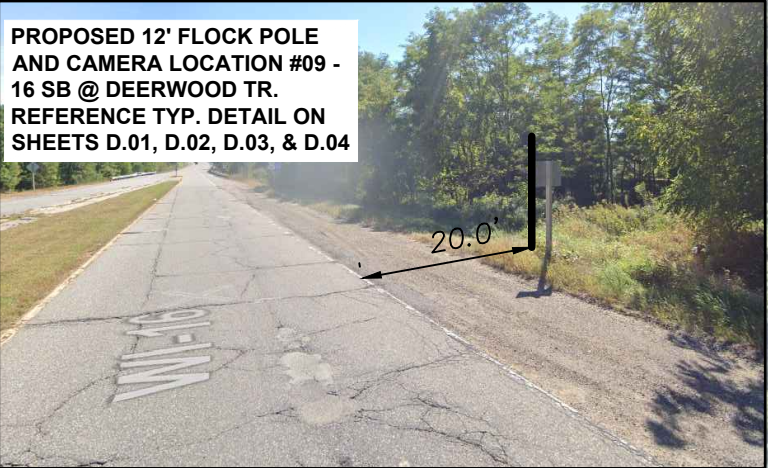
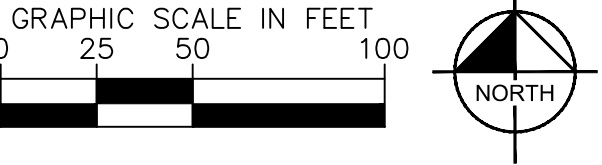
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| CAMERA DETAILS |                            |                       |
|----------------|----------------------------|-----------------------|
| CAMERA         | NUMBER & LOCATION          | COORDINATES (N,W)     |
|                | #09 - 16 SB @ DEERWOOD TR. | 43.625652, -89.758524 |

| CAMERA #09  |           |
|-------------|-----------|
| SPEED LIMIT | 55 MPH    |
| ADT         | 3,300 VPD |
| FORESLOPE   | 6:1       |
| CLEAR ZONE  | 20-22'    |

NOTE: ALL DIMENSIONS TO BE TAKEN FROM FACE OF POLE BASE.



PROJECT INFORMATION: \_\_\_\_\_

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

PLANS PREPARED BY: \_\_\_\_\_

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
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| 0 | 10/20/22 | PERMITTING | MRD |

LICENSER: \_\_\_\_\_

KHA PROJECT NUMBER: \_\_\_\_\_

014681000.1.299

DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_

XQD TLL

SHEET TITLE: \_\_\_\_\_

SITE PLAN

SHEET NUMBER: \_\_\_\_\_

S.06

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CAMERA DETAILS

| CAMERA                                                                            | NUMBER & LOCATION       | COORDINATES (N,W)                      |
|-----------------------------------------------------------------------------------|-------------------------|----------------------------------------|
|  | #10 - HWY 51 @ CR DM NB | 43.281375302269076, -89.32460009545123 |

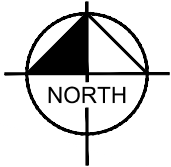
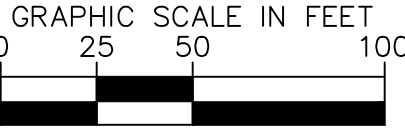
PROPOSED 12' FLOCK POLE AND CAMERA LOCATION #10 - NB HWY 51 @ CR DM  
REFERENCE TYP. DETAIL ON SHEETS D.01, D.02, D.03, & D.04



CAMERA #10

|             |           |
|-------------|-----------|
| SPEED LIMIT | 55 MPH    |
| ADT         | 8,700 VPD |
| FORESLOPE   | 6:1       |
| CLEAR ZONE  | 22-24'    |

NOTE: ALL DIMENSIONS TO BE TAKEN FROM FACE OF POLE BASE.



CO RD D M

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PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

PLANS PREPARED BY:

Kimley»Horn

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
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| 0 | 10/20/22 | PERMITTING | MRD |

LICENSER:

KHA PROJECT NUMBER:

014681000.1.299

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SHEET TITLE:

SITE PLAN

SHEET NUMBER:

S.07



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K:\RAL\_Wireless\Flock\_Safety\KHAL-18380 (WI) (12-ft Direct Embed)\CAD\FLOCK\_POLE\_DETAIL\_RD.dwg 09/27/22 3:18 PM by: Greg.VanMaaren

DESIGN NOTES

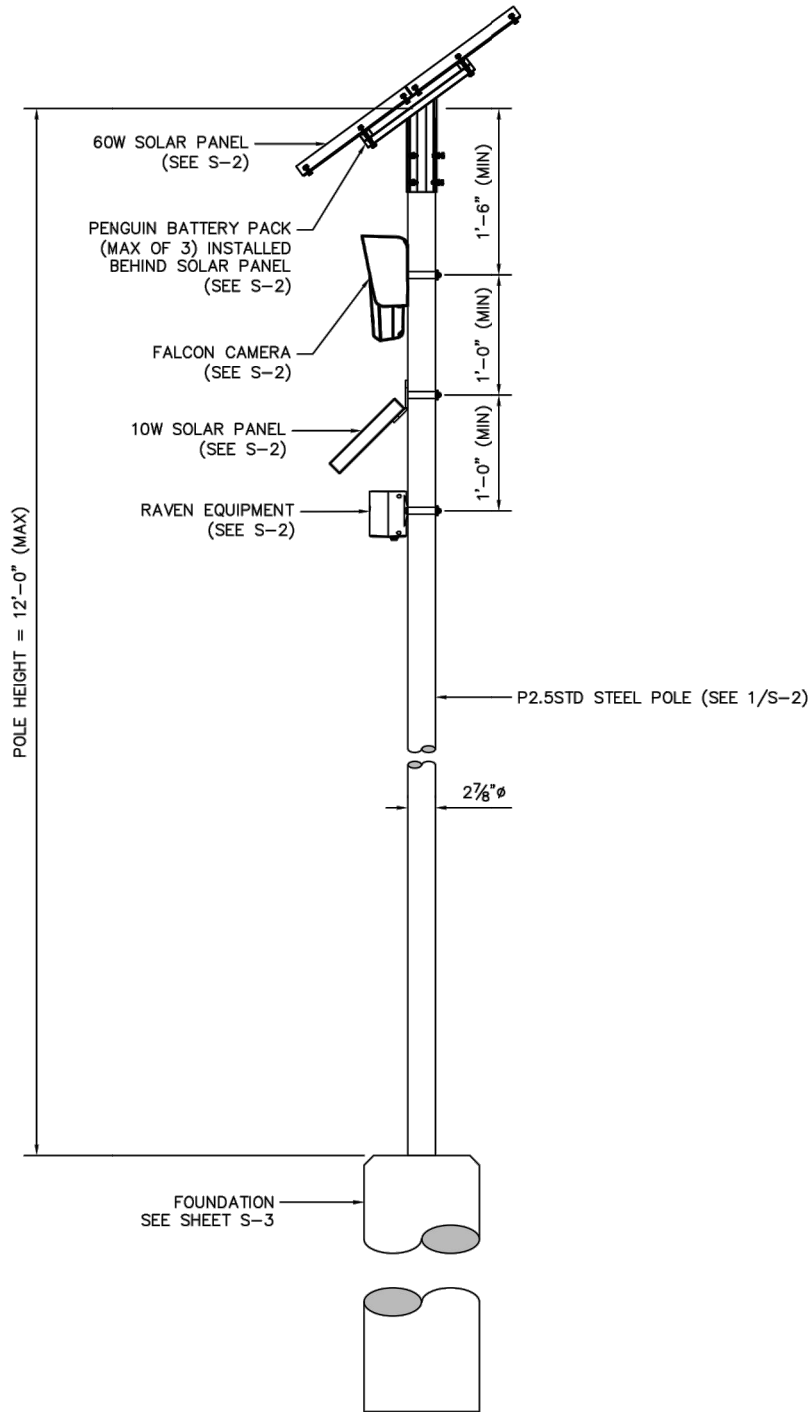
- POLE AND FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES:
  - 2015 INTERNATIONAL BUILDING CODE
  - AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2015 EDITION.
- POLE ANALYSIS AND FOUNDATION DESIGN ARE BASED ON THE FOLLOWING CRITERIA:
  - DESIGN WIND SPEED (V<sub>ult</sub>): 115 MPH (MAXIMUM)
  - RISK CATEGORY: II
  - EXPOSURE CATEGORY: C
  - TOPOGRAPHIC CATEGORY: 1
  - SEISMIC DESIGN CRITERIA:
    - SOIL SITE CLASS: D (ASSUMED)
    - SPECTRAL RESPONSE, S<sub>s</sub>: 0.300g (MAXIMUM)
    - SPECTRAL RESPONSE, S<sub>1</sub>: 0.150g (MAXIMUM)
    - SEISMIC DESIGN CATEGORY: B
  - STRUCTURE BASE REACTIONS ARE CALCULATED AS FOLLOWS:  
ULTIMATE BASE MOMENT: 2,700 LB-FT  
ULTIMATE BASE SHEAR: 300 LB  
ULTIMATE BASE AXIAL: 200 LB
  - SHOULD ANY OF THE SITE-SPECIFIC PARAMETERS BE HIGHER THAN WHAT IS NOTED ABOVE, THE EOR SHALL BE CONTACTED TO PROVIDE A REVISED DESIGN.
- THE TOP OF THE FOUNDATION OUTSIDE OF THE PIPE FOOTPRINT SHALL BE SLOPED BETWEEN 1" AND 3" TO ALLOW FOR ADEQUATE DRAINAGE.
- THE PROPOSED DETAILS OF THIS DRAWING SHALL NOT BE USED WHERE SOILS CONSIST OF SOFT CLAY, PEAT, OR SOIL WHERE A SMALL DIAMETER REBAR (#5 OR SMALLER) OR METAL PROBE PENETRATES EASILY INTO THE SOIL BY MORE THAN 6" WHEN THE FULL WEIGHT OF A PERSON IS APPLIED. IF UNEXPECTED SOIL IS FOUND ON SITE, THE CONTRACTOR SHALL CONTACT THE EOR FOR DIRECTION.

GENERAL & CONSTRUCTION NOTES

- CONTRACTOR SHALL CONTACT DESIGNATED AGENCY TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL APPLY AND OBTAIN AN APPROVED TRAFFIC CONTROL PLAN IN ACCORDANCE WITH MUTCD AND LOCAL JURISDICTION STANDARDS.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO ORIGINAL SITE CONDITION TO THE SATISFACTION OF STATE DEPARTMENT OF TRANSPORTATION AND LOCAL JURISDICTION.
- ALL WORK SHALL CONFORM TO APPLICABLE ELECTRICAL CODES EXCEPT WHEN STATE DEPARTMENT OF TRANSPORTATION OR LOCAL JURISDICTION STANDARDS SUPERSEDE.
- POLE AND PROPOSED EQUIPMENT SHALL BE CONNECTED TO SOLID BARE BOND GROUND AND GROUNDING ROD IN POLE FOUNDATION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS DEFINED BY THE STATE DEPARTMENT OF TRANSPORTATION OR LOCAL JURISDICTION, UNLESS SPECIFICALLY STATED OR SHOWN OTHERWISE HEREIN.

ADA COMPLIANCE NOTES

- ALL SIDEWALK CONSTRUCTION SHALL BE IN ACCORDANCE WITH ADA TITLE II, STATE DEPARTMENT OF TRANSPORTATION, AND LOCAL JURISDICTION STANDARDS.
- STATE DEPARTMENT OF TRANSPORTATION CURRENT EDITION STANDARDS SHALL BE USED FOR PEDESTRIAN CONTROL PLANS WHEN CLOSURE OF SIDEWALK IS REQUIRED FOR CONSTRUCTION.
- MINIMUM CLEAR PEDESTRIAN ACCESS ROUTE (PAR) SHALL BE 48" WIDE.
- NO OBSTRUCTION IS PERMITTED ALONG THE WIDTH OF THE SIDEWALK, UP TO AN ELEVATION OF 7'-0" ABOVE GRADE.



1 POLE ELEVATION DETAIL  
S-1 SCALE: N/A

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PROJECT INFORMATION:

STANDARD  
CONFIGURATION DETAILS  
(DIRECT EMBED SYSTEM)  
AUTOMATIC LICENSE  
PLATE READER AND  
SOLAR PANEL SYSTEM

PLANS PREPARED BY:

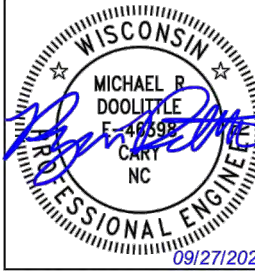
**Kimley»Horn**

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
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LICENSER:



KHA PROJECT NUMBER:

014681000

DRAWN BY: CHECKED BY:

GJV

MRD

SHEET TITLE:

GENERAL NOTES  
AND POLE  
ASSEMBLY DETAIL

SHEET NUMBER:

S-1

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PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

PLANS PREPARED BY:

**Kimley»Horn**

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
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KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

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SHEET TITLE:

EQUIPMENT AND  
FOUNDATION  
DETAILS

SHEET NUMBER:

D.01

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PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

PLANS PREPARED BY:

KimleyHorn

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
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KHA PROJECT NUMBER:

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DRAWN BY: CHECKED BY:

XQD TLL

SHEET TITLE:

EQUIPMENT AND  
FOUNDATION  
DETAILS

SHEET NUMBER:

D.02

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PROJECT INFORMATION:

STANDARD  
CONFIGURATION DETAILS  
(DIRECT EMBED SYSTEM)  
AUTOMATIC LICENSE  
PLATE READER AND  
SOLAR PANEL SYSTEM

PLANS PREPARED BY:

KimleyHorn

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
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KHA PROJECT NUMBER:

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DRAWN BY: CHECKED BY:

GJV

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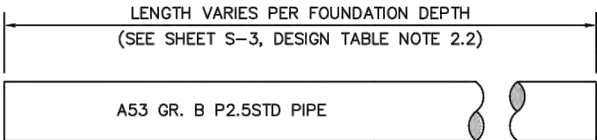
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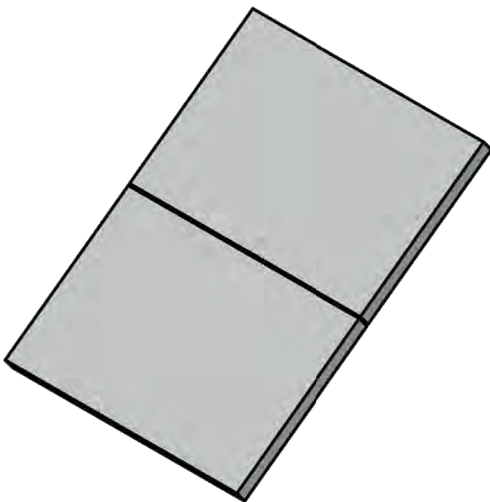
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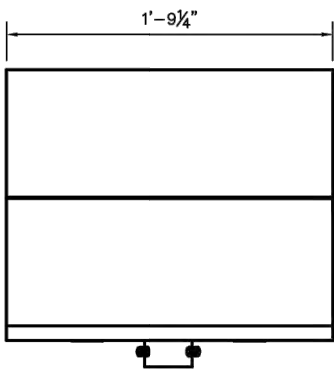


PIPE SHALL BE HOT DIP GALVANIZED

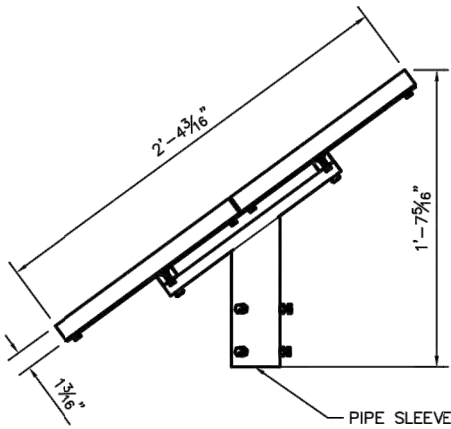
PIPE DETAIL



ISOMETRIC



FRONT

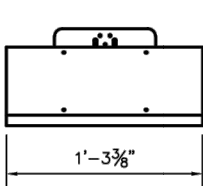


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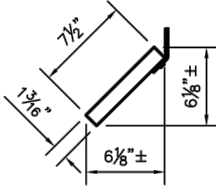
PIPE SLEEVE  
MOUNT

MOUNTING HARDWARE TO BE  
PROVIDED BY FLOCK SAFETY

60 WATT SOLAR PANEL DETAIL (TOP MOUNTED)



FRONT



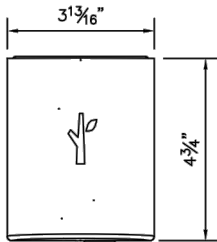
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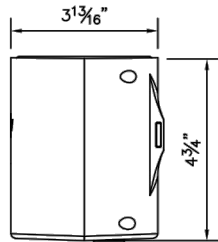
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10 WATT SOLAR PANEL DETAIL

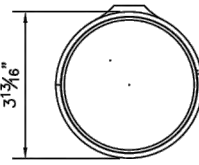
MOUNTING HARDWARE TO BE  
PROVIDED BY FLOCK SAFETY



FRONT



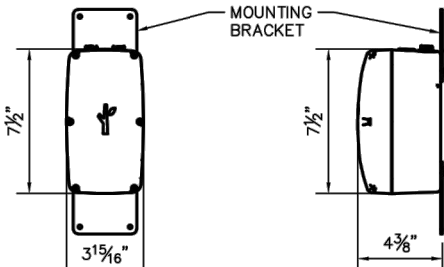
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TOP

"RAVEN" EQUIPMENT

MOUNTING HARDWARE TO BE  
PROVIDED BY FLOCK SAFETY



FRONT

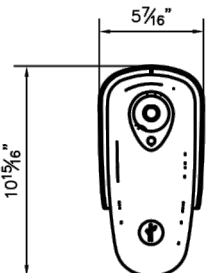
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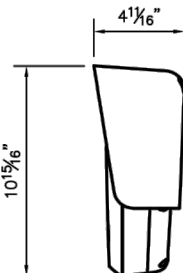
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"PENGUIN" BATTERY PACK

BATTERY PACKS TO BE MOUNTED  
BEHIND 60W SOLAR PANEL



FRONT



SIDE



ISOMETRIC

FLOCK SAFETY "FALCON" CAMERA

MOUNTING HARDWARE TO BE  
PROVIDED BY FLOCK SAFETY

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K:\RAL\_Wireless\Flock Safe\KHAL-1B380 (W) (12-ft Direct Embed)\CAD\FLOCK\_POLE\_DETAIL\_RD.dwg ----- 09/27/22 3:19 PM by: Greg.VanMaaren

FOUNDATION DESIGN NOTES

1. FOUNDATION DESIGN REACTIONS ARE BASED ON INTERNAL CALCULATIONS BY KIMLEY-HORN. ANALYSIS CRITERIA CAN BE FOUND ON SHEET S-1.
2. FOUNDATION MAY BE CAST-IN-PLACE, OR PRECAST.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI

3.A. MIX DESIGN TO BE IN ACCORDANCE WITH ACI 318, CHAPTER 26

3.B. COARSE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33 SIZE #57

3.C. COLD WEATHER PLACEMENT SHALL COMPLY WITH ACI 306.1

3.D. HOT WEATHER PLACEMENT SHALL COMPLY WITH ACI 305 R
4. ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1"
5. CONTRACTOR SHALL VERIFY THAT THE PROPOSED FOUNDATION CAN BE BUILT AS SHOWN. CONTRACTOR SHALL OBTAIN EOR APPROVAL FOR ANY CHANGES TO THE PROPOSED DESIGN.
6. CONTRACTOR SHALL FIELD VERIFY THE PRESENCE OF GROUNDWATER IN THE TOP 10-FT OF SOIL PRIOR TO CONSTRUCTION. IF GROUNDWATER IS ENCOUNTERED, ONE OF THE FOLLOWING METHODS SHALL BE IMPLEMENTED:

6.A. THE CONTRACTOR SHALL PUMP EXCESS WATER OUT OF A BORE HOLE THROUGHOUT INSTALLATION PROCESS.

6.B. THE FOUNDATION MAY BE INSTALLED INSIDE INSIDE OF A SONOTUBE THAT EXTENDS TO THE FULL EMBEDMENT DEPTH. SOIL BACKFILL SHALL BE PROPERLY COMPACTED TO A MINIMUM OF 95% OF STANDARD MAXIMUM DENSITY (ASTM D 698, 100 PCF MINIMUM).

6.C. A PL $\frac{1}{4}$ " TEMPORARY CASING MAY BE USED DURING INSTALLATION. THE CASING SHALL BE EXTRACTED AS THE CONCRETE IS PLACED SUCH THAT A HEAD OF CONCRETE IS MAINTAINED ABOVE THE BOTTOM OF THE CASING TO PREVENT WATER INTRUSION INTO THE CONCRETE MIX.

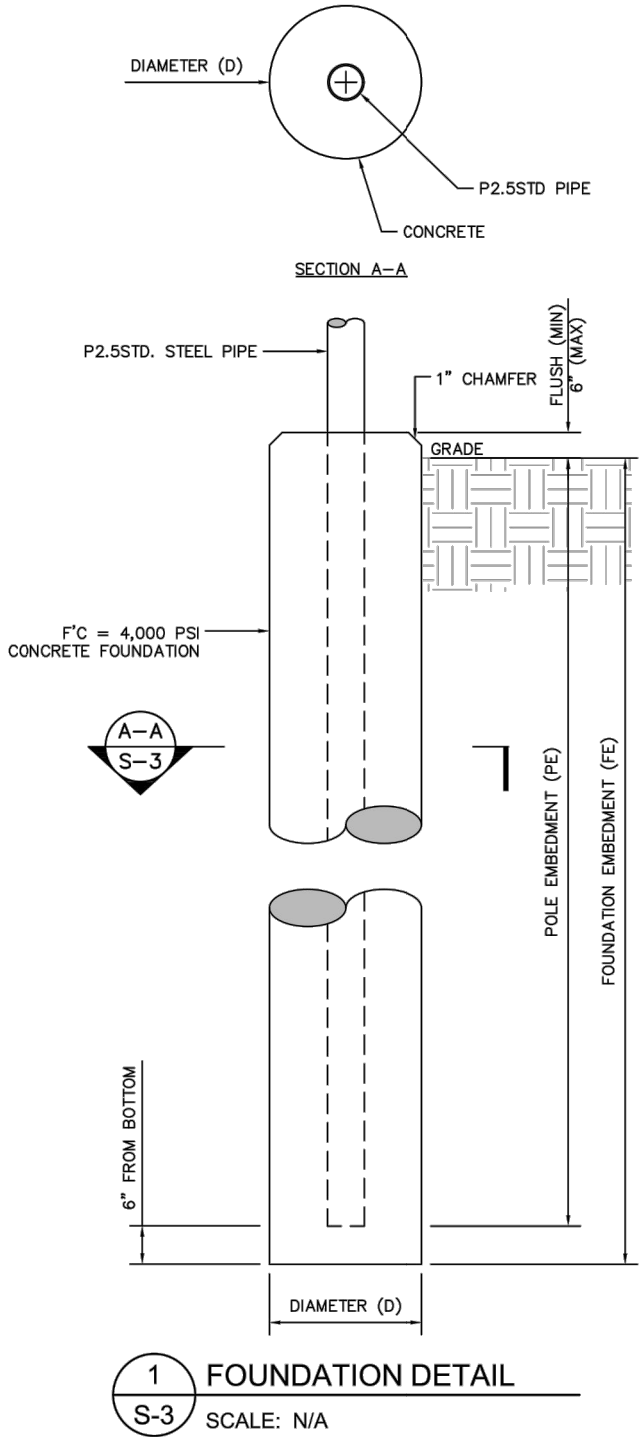
| FOUNDATION DESIGN TABLE |                           |                      |
|-------------------------|---------------------------|----------------------|
| DIAMETER (D)            | FOUNDATION EMBEDMENT (FE) | POLE EMBEDMENT (PE)  |
| 12"Ø                    | 5'-0" (SEE NOTE 2)        | 4'-6" (SEE NOTE 2.1) |

DESIGN TABLE NOTES:

1. DRAWINGS DENOTE A GENERIC FOUNDATION CONFIGURATION AND ARE NOT TO SCALE. REFER TO DIMENSIONS AND BILL OF MATERIALS FOR MATERIAL SIZES AND QUANTITIES.
2. FOUNDATION EMBEDMENT (FE) SHALL BE THE MAXIMUM OF THE DIMENSIONS SPECIFIED, OR 6" BELOW THE FROST DEPTH APPLICABLE TO THE SITE LOCATION. CONTRACTOR SHALL VERIFY FROST DEPTH PRIOR TO CONSTRUCTION. SEE SHEET R-1 FOR ADDITIONAL INFORMATION.

2.1. POLE EMBEDMENT (PE) SHALL BE 6" LESS THAN THE FOUNDATION EMBEDMENT (FE) FOR ALL FINAL CONFIGURATIONS.

2.2. FINAL PIPE LENGTH SHALL BE 12-FT PLUS THE REQUIRED POLE EMBEDMENT (PE) TO MEET FROST DEPTH REQUIREMENTS. FINAL PIPE SIZES MAY VARY ACCORDINGLY, FIELD CUT TO LENGTH AS REQUIRED.



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PROJECT INFORMATION:

STANDARD  
CONFIGURATION DETAILS  
(DIRECT EMBED SYSTEM)  
AUTOMATIC LICENSE  
PLATE READER AND  
SOLAR PANEL SYSTEM

PLANS PREPARED BY:

**Kimley»Horn**

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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| 0 | 09/27/22 | CONSTRUCTION | MRD |

LICENSER:



KHA PROJECT NUMBER:

014681000

DRAWN BY:

GJV

CHECKED BY:

MRD

SHEET TITLE:

FOUNDATION  
DETAILS

SHEET NUMBER:

S-3

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PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

PLANS PREPARED BY:

**Kimley»Horn**

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
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PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

XQD

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SHEET TITLE:

EQUIPMENT AND  
FOUNDATION  
DETAILS

SHEET NUMBER:

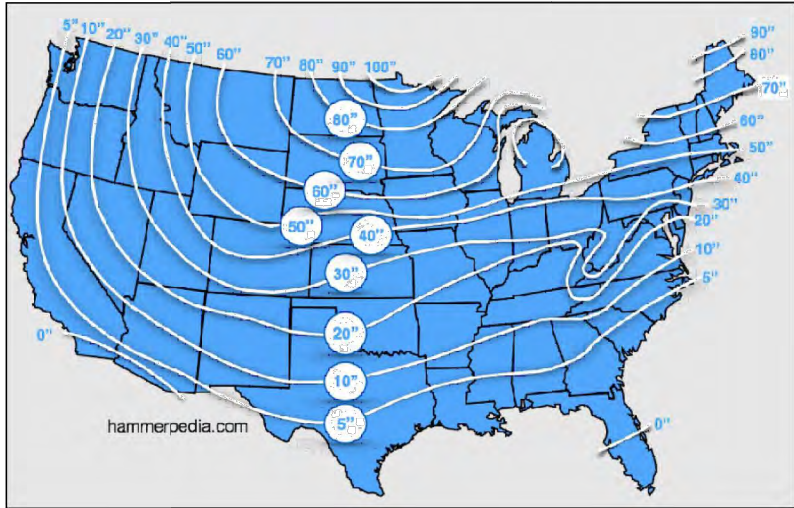
D.03

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FROST DEPTH NOTES

1. ESTIMATED FROST DEPTHS FOR VARIOUS COUNTIES ARE LISTED IN THE PROVIDED TABLES.  
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING FROST DEPTHS WITH THE LOCAL JURISDICTION REQUIREMENTS.



| State | County      | Design Frost Depth (in.) |
|-------|-------------|--------------------------|
| WI    | ADAMS       | 70                       |
| WI    | ASHLAND     | 80                       |
| WI    | BARRON      | 80                       |
| WI    | BAYFIELD    | 80                       |
| WI    | BROWN       | 60                       |
| WI    | BUFFALO     | 80                       |
| WI    | BURNETT     | 80                       |
| WI    | CALUMET     | 60                       |
| WI    | CHIPPEWA    | 80                       |
| WI    | CLARK       | 70                       |
| WI    | COLUMBIA    | 60                       |
| WI    | CRAWFORD    | 70                       |
| WI    | DANE        | 60                       |
| WI    | DODGE       | 60                       |
| WI    | DOOR        | 60                       |
| WI    | DOUGLAS     | 80                       |
| WI    | DUNN        | 80                       |
| WI    | EAU CLAIRE  | 80                       |
| WI    | FLORENCE    | 70                       |
| WI    | FOND DU LAC | 60                       |
| WI    | FOREST      | 70                       |
| WI    | GRANT       | 60                       |
| WI    | GREEN       | 60                       |
| WI    | GREEN LAKE  | 70                       |
| WI    | IOWA        | 60                       |
| WI    | IRON        | 80                       |
| WI    | JACKSON     | 80                       |
| WI    | JEFFERSON   | 60                       |
| WI    | JUNEAU      | 70                       |
| WI    | KENOSHA     | 60                       |
| WI    | KEWAUNEE    | 60                       |
| WI    | LA CROSSE   | 70                       |
| WI    | LAFAYETTE   | 60                       |
| WI    | LANGLADE    | 70                       |
| WI    | LINCOLN     | 80                       |
| WI    | MANITOWOC   | 60                       |
| WI    | MARATHON    | 80                       |
| WI    | MARINETTE   | 60                       |
| WI    | MARQUETTE   | 70                       |
| WI    | MENOMINEE   | 70                       |
| WI    | MILWAUKEE   | 60                       |
| WI    | MONROE      | 70                       |
| WI    | OCONTO      | 60                       |
| WI    | ONEIDA      | 80                       |
| WI    | OUTAGAMIE   | 70                       |
| WI    | OZAUKEE     | 60                       |
| WI    | PEPIN       | 80                       |
| WI    | PIERCE      | 80                       |
| WI    | POLK        | 80                       |

| State | County      | Design Frost Depth (in.) |
|-------|-------------|--------------------------|
| WI    | PORTAGE     | 70                       |
| WI    | PRICE       | 80                       |
| WI    | RACINE      | 60                       |
| WI    | RICHLAND    | 70                       |
| WI    | ROCK        | 60                       |
| WI    | RUSK        | 80                       |
| WI    | SAINT CROIX | 80                       |
| WI    | SAUK        | 70                       |
| WI    | SAWYER      | 80                       |
| WI    | SHAWANO     | 70                       |
| WI    | SHEBOYGAN   | 60                       |
| WI    | TAYLOR      | 80                       |
| WI    | TREMPEALEAU | 80                       |
| WI    | VERNON      | 70                       |
| WI    | VILAS       | 80                       |
| WI    | WALWORTH    | 60                       |
| WI    | WASHBURN    | 80                       |
| WI    | WASHINGTON  | 60                       |
| WI    | WAUKESHA    | 60                       |
| WI    | WAUPACA     | 70                       |
| WI    | WAUSHARA    | 70                       |
| WI    | WINNEBAGO   | 70                       |
| WI    | WOOD        | 70                       |

flock safety™

PROJECT INFORMATION:

STANDARD  
CONFIGURATION DETAILS  
(DIRECT EMBED SYSTEM)  
AUTOMATIC LICENSE  
PLATE READER AND  
SOLAR PANEL SYSTEM

PLANS PREPARED BY:

Kimley»Horn

817 WEST PEACHTREE STREET,  
NW, SUITE 601  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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| 1 |          |              |     |
| 0 | 09/27/22 | CONSTRUCTION | MRD |

LICENSER:



KHA PROJECT NUMBER:

014681000

DRAWN BY:

CHECKED BY:

GJV

MRD

SHEET TITLE:

FROST DEPTH  
REQUIREMENTS

SHEET NUMBER:

R-1

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flock safety™

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

PLANS PREPARED BY:

Kimley»Horn

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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| 1 | 11/16/22 | PERMITTING | MRD |
| 0 | 10/20/22 | PERMITTING | MRD |

LICENSER:

FOR REFERENCE  
ONLY

KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

XQD

TLL

SHEET TITLE:

EQUIPMENT AND  
FOUNDATION  
DETAILS

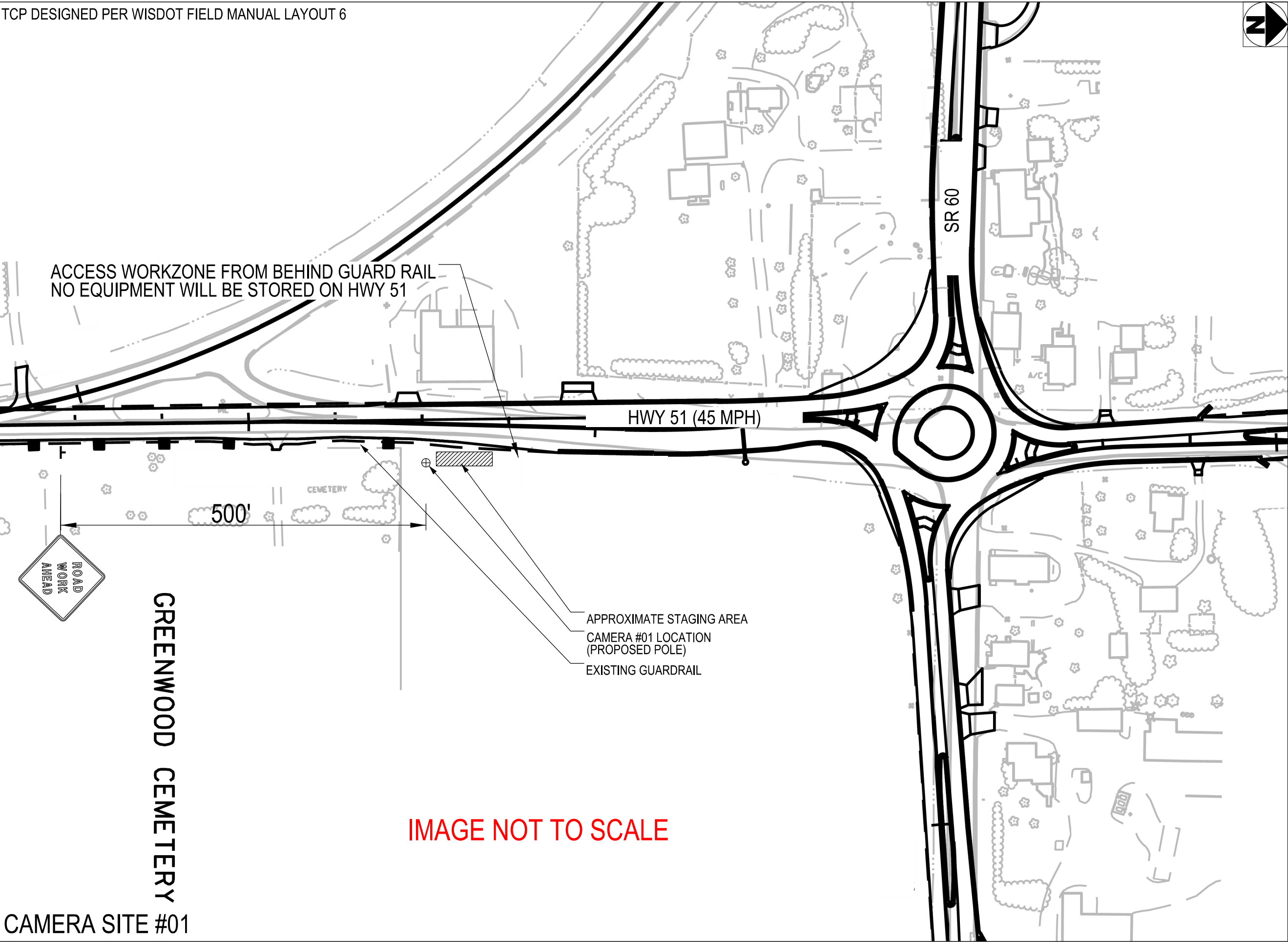
SHEET NUMBER:

D.04

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TCP DESIGNED PER WISDOT FIELD MANUAL LAYOUT 6



flack safety

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENCE PLATE READER  
TRAFFIC CONTROL PLANS

PLANS PREPARED BY:

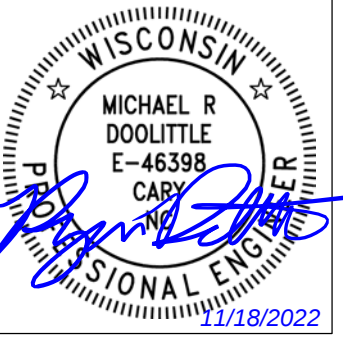
Kimley»Horn

817 WEST PEACHTREE STREET,  
NW, SUITE 601  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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| 2 | 11/18/22 | PERMITTING | MRD |
| 1 | 10/26/22 | PERMITTING | MRD |
| 0 | 10/25/22 | PERMITTING | MRD |

LICENSER



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

WRB

TI

SHEET TITLE:

TRAFFIC CONTROL  
PLAN

SHEET NUMBER:

TC.01



TCP DESIGNED PER WISDOT FIELD MANUAL LAYOUT 6



flock safety

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENCE PLATE READER  
TRAFFIC CONTROL PLANS

PLANS PREPARED BY:

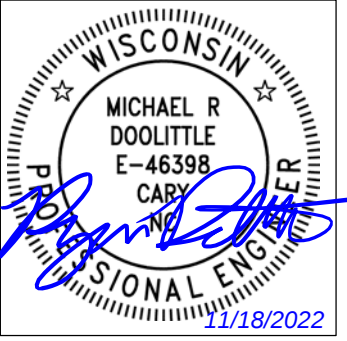
Kimley»Horn

817 WEST PEACHTREE STREET,  
NW, SUITE 601  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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| 2 | 11/18/22 | PERMITTING | MRD |
| 1 | 10/26/22 | PERMITTING | MRD |
| 0 | 10/25/22 | PERMITTING | MRD |

LICENSER



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

WRB

TI

SHEET TITLE:

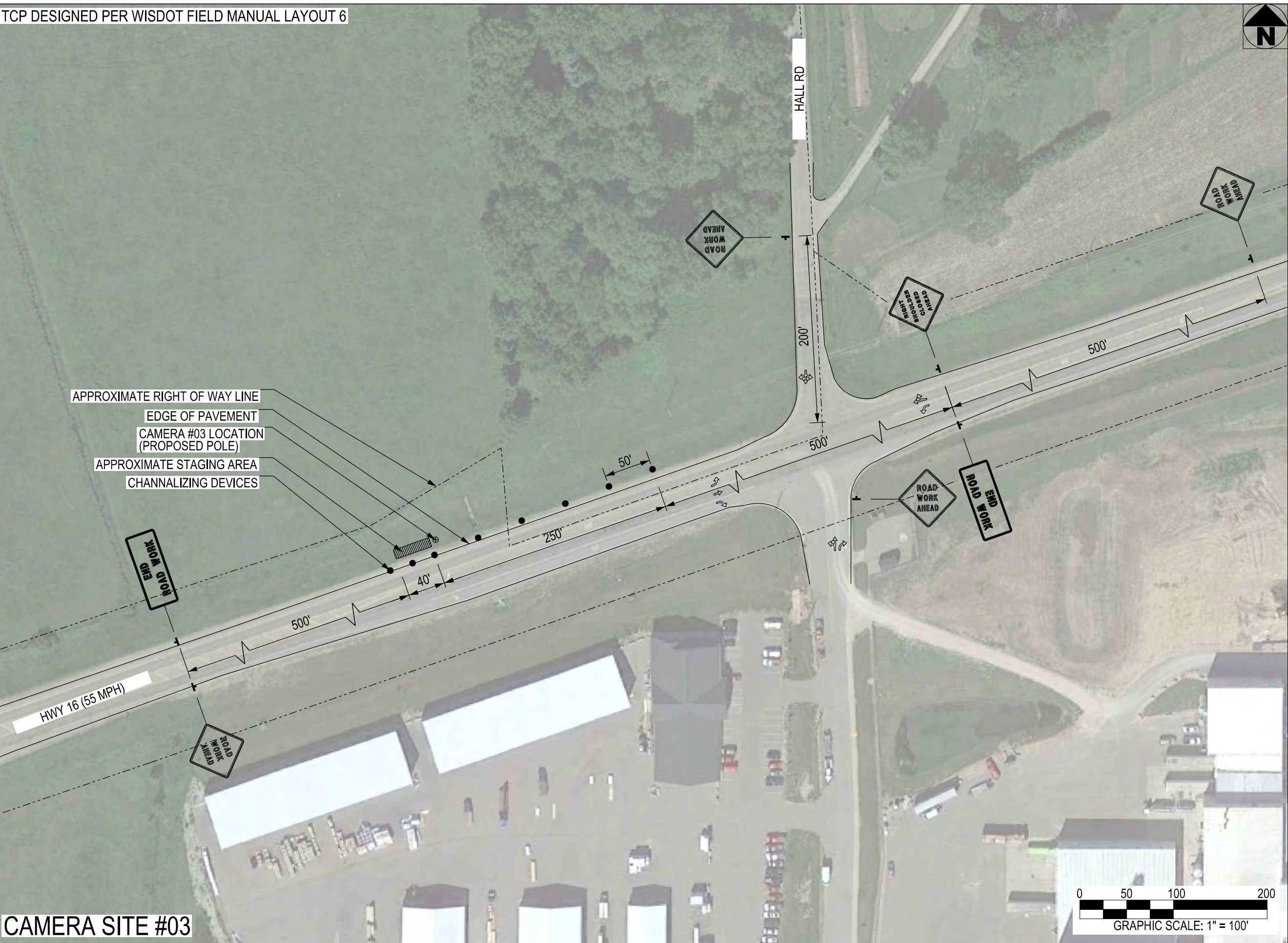
TRAFFIC CONTROL  
PLAN

SHEET NUMBER:

TC.02



TCP DESIGNED PER WISDOT FIELD MANUAL LAYOUT 6



CAMERA SITE #03

Rock safety

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENCE PLATE READER  
TRAFFIC CONTROL PLANS

PLANS PREPARED BY:

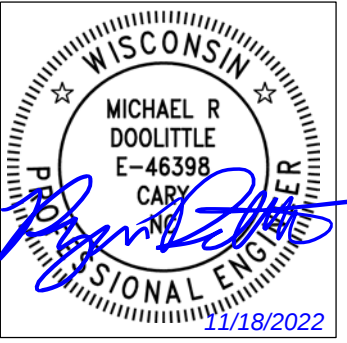
Kimley»Horn

817 WEST PEACHTREE STREET,  
NW, SUITE 601  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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| 2 | 11/18/22 | PERMITTING | MRD |
| 1 | 10/26/22 | PERMITTING | MRD |
| 0 | 10/25/22 | PERMITTING | MRD |

LICENSER:



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

WRB TI

SHEET TITLE:

TRAFFIC CONTROL  
PLAN

SHEET NUMBER:

TC.03



TCP DESIGNED PER WISDOT FIELD MANUAL LAYOUT 6

CHANNELIZING DEVICES SHALL NOT ENCHROACH THE TRAVEL LANE



CAMERA SITE #05

flock safety

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
TRAFFIC CONTROL PLANS

PLANS PREPARED BY:

Kimley»Horn

817 WEST PEACHTREE STREET,  
NW, SUITE 601  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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| 1 |         |            |     |
| 0 | 4/20/23 | PERMITTING | MRD |

LICENSER:



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

WRB

MRD

SHEET TITLE:

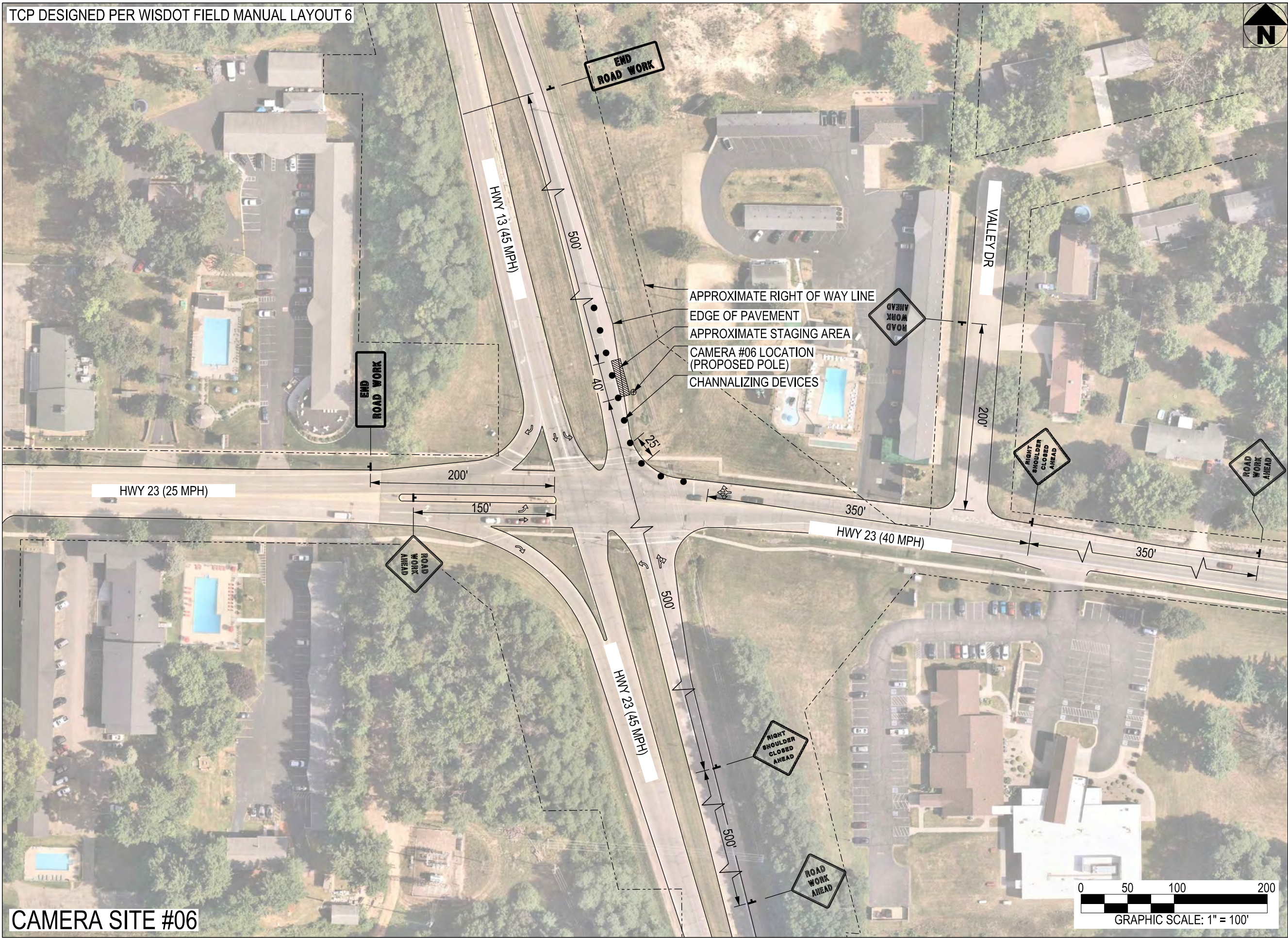
TRAFFIC CONTROL  
PLAN

SHEET NUMBER:

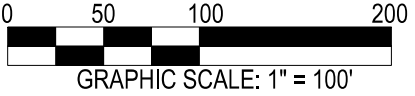
TC.04



TCP DESIGNED PER WISDOT FIELD MANUAL LAYOUT 6



CAMERA SITE #06



**flock safety**

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENCE PLATE READER  
TRAFFIC CONTROL PLANS

PLANS PREPARED BY:

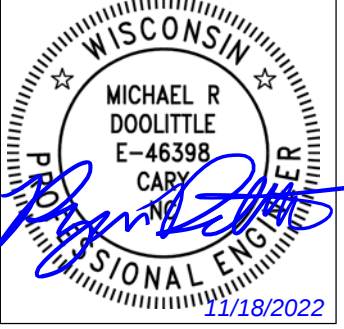
**Kimley»Horn**

817 WEST PEACHTREE STREET,  
NW, SUITE 601  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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| 2 | 11/18/22 | PERMITTING | MRD |
| 1 | 10/26/22 | PERMITTING | MRD |
| 0 | 10/25/22 | PERMITTING | MRD |

LICENSER



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

WRB TI

SHEET TITLE:

TRAFFIC CONTROL  
PLAN

SHEET NUMBER:

TC.05



TCP DESIGNED PER WISDOT FIELD MANUAL LAYOUT 6



flack safety

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENCE PLATE READER  
TRAFFIC CONTROL PLANS

PLANS PREPARED BY:

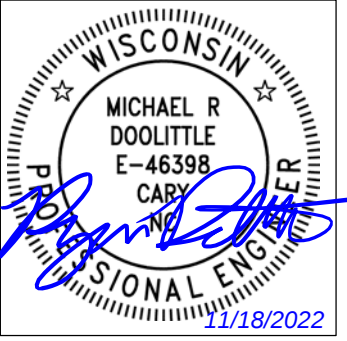
Kimley»Horn

817 WEST PEACHTREE STREET,  
NW, SUITE 601  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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| 2 | 11/18/22 | PERMITTING | MRD |
| 1 | 10/26/22 | PERMITTING | MRD |
| 0 | 10/25/22 | PERMITTING | MRD |

LICENSER:



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

WRB TI

SHEET TITLE:

TRAFFIC CONTROL  
PLAN

SHEET NUMBER:

TC.06



TCP DESIGNED PER WISDOT FIELD MANUAL LAYOUT 6



flack safety

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENCE PLATE READER  
TRAFFIC CONTROL PLANS

PLANS PREPARED BY:

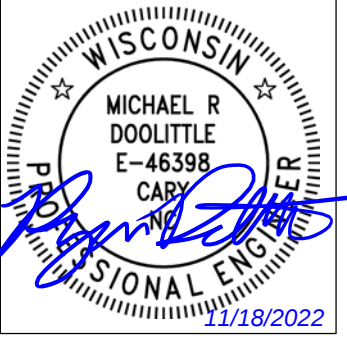
Kimley»Horn

817 WEST PEACHTREE STREET,  
NW, SUITE 601  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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| 2 | 11/18/22 | PERMITTING | MRD |
| 1 | 10/26/22 | PERMITTING | MRD |
| 0 | 10/25/22 | PERMITTING | MRD |

LICENSER:



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

WRB

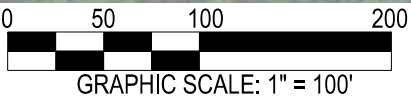
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SHEET TITLE:

TRAFFIC CONTROL  
PLAN

SHEET NUMBER:

TC.07

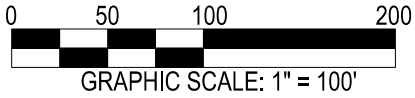




TCP DESIGNED PER WISDOT FIELD MANUAL LAYOUT 6



CAMERA SITE #09



**flock safety**

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENCE PLATE READER  
TRAFFIC CONTROL PLANS

PLANS PREPARED BY:

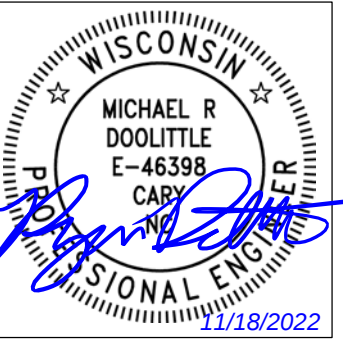
**Kimley»Horn**

817 WEST PEACHTREE STREET,  
NW, SUITE 601  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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| 2 | 11/18/22 | PERMITTING | MRD |
| 1 | 10/26/22 | PERMITTING | MRD |
| 0 | 10/25/22 | PERMITTING | MRD |

LICENSER:



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

WRB TI

SHEET TITLE:

TRAFFIC CONTROL  
PLAN

SHEET NUMBER:

TC.08



TCP DESIGNED PER WISDOT FIELD MANUAL LAYOUT 6

CHANNELIZING DEVICES SHALL NOT  
ENCHROACH THE TRAVEL LANE



CAMERA SITE #10

flock safety™

PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
TRAFFIC CONTROL PLANS

PLANS PREPARED BY:

Kimley»Horn

817 WEST PEACHTREE STREET,  
NW, SUITE 601  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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| 0 | 4/20/23 | PERMITTING | MRD |

LICENSER:



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

WRB

MRD

SHEET TITLE:

TRAFFIC CONTROL  
PLAN

SHEET NUMBER:

TC.09



K:\RAL\_Wireless\Flock Safety\KHFS-919 (WI) (Aluminum Direct Embed)\CAD\2023.04.27\_POLE DETAIL\_Aluminum Direct-Embed (RC I)\_Provelli\_(WI)\_RD.dwg ----- 04/28/23 3:05 PM by: greg.vanmaaren



STATE OF WISCONSIN

STANDARD CONFIGURATION DETAILS  
AUTOTMATIC LICENSE PLATE READER  
AND SOLAR PANEL SYSTEM  
(DIRECT EMBED SYSTEM WITH PROVELI SPLICE)

| INDEX OF SHEETS |                                      |     |
|-----------------|--------------------------------------|-----|
| SHEET           | DESCRIPTION                          | REV |
| T-1             | TITLE SHEET                          | 0   |
| S-1             | GENERAL NOTES & POLE ASSEMBLY DETAIL | 0   |
| S-2             | EQUIPMENT DETAILS                    | 0   |
| S-3             | FOUNDATION DETAILS                   | 0   |
| S-4             | EQUIPMENT DETAILS                    | 0   |
| R-1             | FROST DEPTH INFORMATION              | 0   |
|                 |                                      |     |
|                 |                                      |     |
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NOTE: STRUCTURE MUST BE  
LOCATED A MINIMUM OF  
12-FT FROM THE TRAVELWAY.

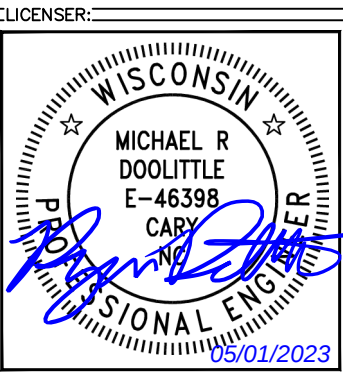
flock safety™

PROJECT INFORMATION: \_\_\_\_\_  
  
STANDARD  
CONFIGURATION DETAILS  
(DIRECT EMBED SYSTEM)  
AUTOMATIC LICENSE  
PLATE READER AND  
SOLAR PANEL SYSTEM

PLANS PREPARED BY: \_\_\_\_\_  
  
**Kimley»Horn**  
  
817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM



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| 0          | 04/28/23    | CONSTRUCTION      | MRD       |



KHA PROJECT NUMBER: \_\_\_\_\_  
014681002

DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
MRD MRD

SHEET TITLE: \_\_\_\_\_  
  
TITLE SHEET

SHEET NUMBER: \_\_\_\_\_  
  
T-1



K:\RAL\_Wireless\Flock Safety\KHS-919 (WI) (Aluminum Direct Embed)\CAD\2023\04\27\_POLE DETAIL Aluminum Direct-Embed (RC I) Provelli (WI) RD.dwg 04/28/23 3:05 PM by: greg.vanmaaren

DESIGN NOTES

1. POLE AND FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES:

1.1. 2015 INTERNATIONAL BUILDING CODE

1.2. AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2015 EDITION.
2. POLE ANALYSIS AND FOUNDATION DESIGN ARE BASED ON THE FOLLOWING CRITERIA:

2.1. DESIGN WIND SPEED (V<sub>ult</sub>): 105 MPH (MAXIMUM)

2.2. RISK CATEGORY: LOW / ADT > 10,000 (300-YEAR MRI)

2.3. EXPOSURE CATEGORY: C

2.4. TOPOGRAPHIC CATEGORY: 1

2.5. SEISMIC DESIGN CRITERIA:

2.5.1. SOIL SITE CLASS: D (ASSUMED)

2.5.2. SPECTRAL RESPONSE, S<sub>s</sub>: 0.100g (MAXIMUM)

2.5.3. SPECTRAL RESPONSE, S<sub>1</sub>: 0.050g (MAXIMUM)

2.5.4. SEISMIC DESIGN CATEGORY: D

2.6. FACTORED STRUCTURE BASE REACTIONS ARE CALCULATED AS FOLLOWS:

ULTIMATE BASE MOMENT: 2,320 LB-FT

ULTIMATE BASE SHEAR: 240 LB

ULTIMATE BASE AXIAL: 110 LB

2.7. SHOULD ANY OF THE SITE-SPECIFIC PARAMETERS BE HIGHER THAN WHAT IS NOTED ABOVE, THE EOR SHALL BE CONTACTED TO PROVIDE A REVISED DESIGN.
3. THE TOP OF THE FOUNDATION OUTSIDE OF THE PIPE FOOTPRINT SHALL BE SLOPED BETWEEN 1° AND 3° TO ALLOW FOR ADEQUATE DRAINAGE.
4. THE PROPOSED DETAILS OF THIS DRAWING SHALL NOT BE USED WHERE SOILS CONSIST OF SOFT CLAY, PEAT, OR SOIL WHERE A SMALL DIAMETER REBAR (#5 OR SMALLER) OR METAL PROBE PENETRATES EASILY INTO THE SOIL BY MORE THAN 6" WHEN THE FULL WEIGHT OF A PERSON IS APPLIED. IF UNEXPECTED SOIL IS FOUND ON SITE, THE CONTRACTOR SHALL CONTACT THE EOR FOR DIRECTION.

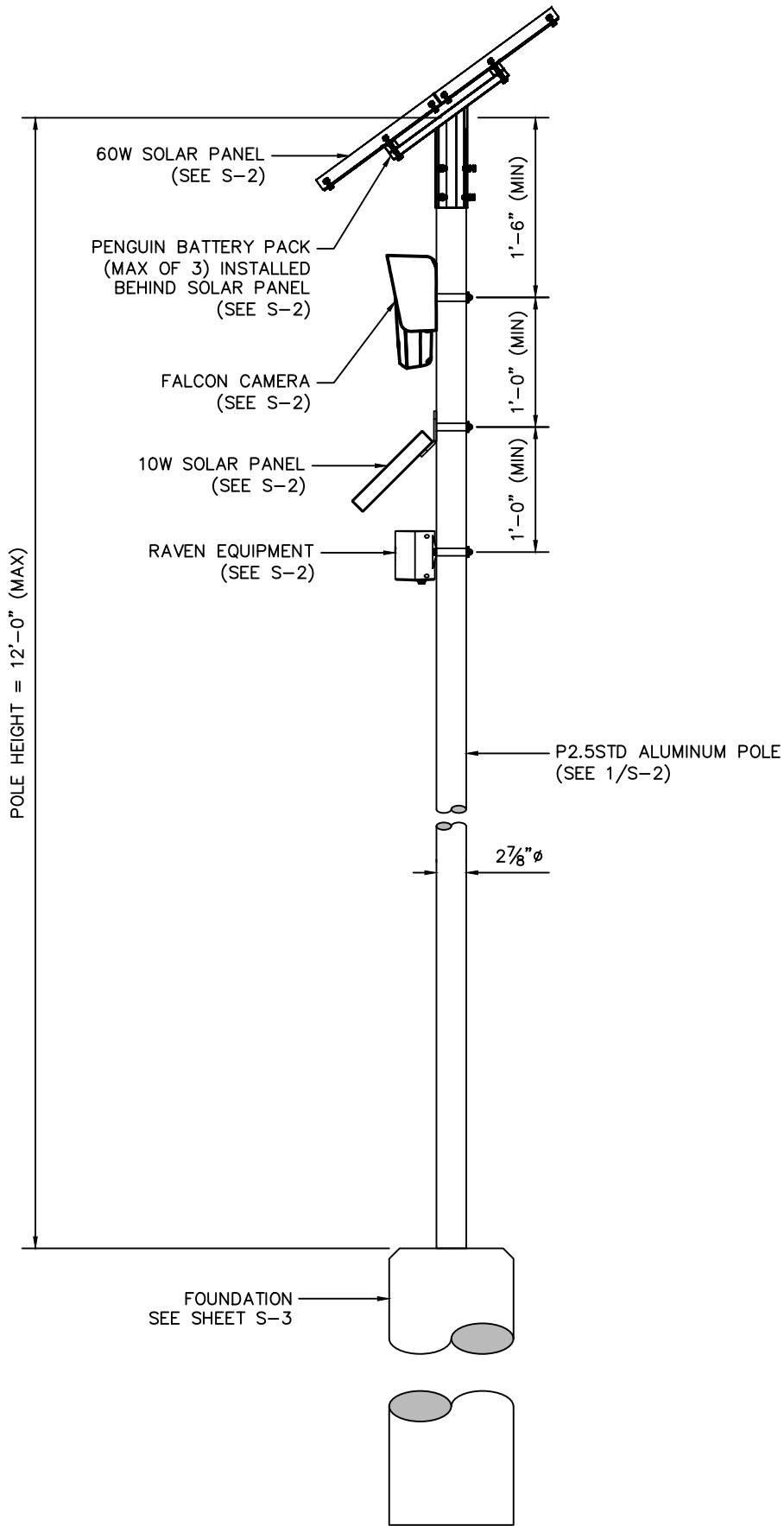
GENERAL & CONSTRUCTION NOTES

1. CONTRACTOR SHALL CONTACT DESIGNATED AGENCY TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL APPLY AND OBTAIN AN APPROVED TRAFFIC CONTROL PLAN IN ACCORDANCE WITH MUTCD AND LOCAL JURISDICTION STANDARDS.
3. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO ORIGINAL SITE CONDITION TO THE SATISFACTION OF STATE DEPARTMENT OF TRANSPORTATION AND LOCAL JURISDICTION.
4. ALL WORK SHALL CONFORM TO APPLICABLE ELECTRICAL CODES EXCEPT WHEN STATE DEPARTMENT OF TRANSPORTATION OR LOCAL JURISDICTION STANDARDS SUPERSEDE.
5. POLE AND PROPOSED EQUIPMENT SHALL BE CONNECTED TO SOLID BARE BOND GROUND AND GROUNDING ROD IN POLE FOUNDATION.
6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS DEFINED BY THE STATE DEPARTMENT OF TRANSPORTATION OR LOCAL JURISDICTION, UNLESS SPECIFICALLY STATED OR SHOWN OTHERWISE HEREIN.

ADA COMPLIANCE NOTES

1. ALL SIDEWALK CONSTRUCTION SHALL BE IN ACCORDANCE WITH ADA TITLE II, STATE DEPARTMENT OF TRANSPORTATION, AND LOCAL JURISDICTION STANDARDS.
2. STATE DEPARTMENT OF TRANSPORTATION CURRENT EDITION STANDARDS SHALL BE USED FOR PEDESTRIAN CONTROL PLANS WHEN CLOSURE OF SIDEWALK IS REQUIRED FOR CONSTRUCTION.
3. MINIMUM CLEAR PEDESTRIAN ACCESS ROUTE (PAR) SHALL BE 48" WIDE.
4. NO OBSTRUCTION IS PERMITTED ALONG THE WIDTH OF THE SIDEWALK, UP TO AN ELEVATION OF 7'-0" ABOVE GRADE.

NOTE: STRUCTURE MUST BE LOCATED A MINIMUM OF 12-FT FROM THE TRAVELWAY.



1 POLE ELEVATION DETAIL  
S-1 SCALE: N/A

flock safety™

PROJECT INFORMATION:  
STANDARD CONFIGURATION DETAILS (DIRECT EMBED SYSTEM) AUTOMATIC LICENSE PLATE READER AND SOLAR PANEL SYSTEM

PLANS PREPARED BY:  
**Kimley»Horn**  
817 WEST PEACHTREE STREET, NW, SUITE 601, ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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LICENSER:  
  
MICHAEL R DOOLITTLE  
E-46398  
CARY, NC  
PROFESSIONAL ENGINEER  
05/01/2023

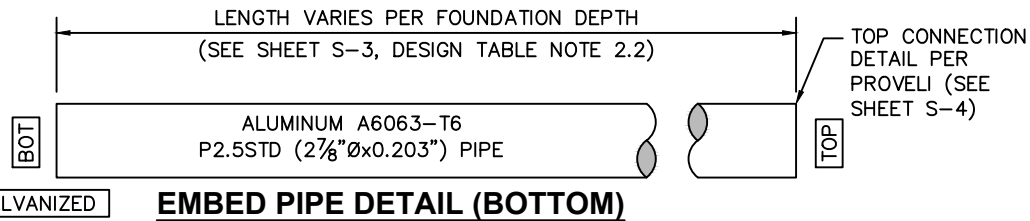
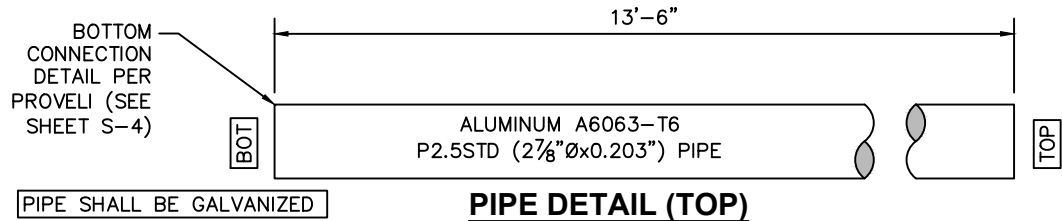
KHA PROJECT NUMBER:  
014681002  
DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
MRD MRD

SHEET TITLE:  
GENERAL NOTES AND POLE ASSEMBLY DETAIL

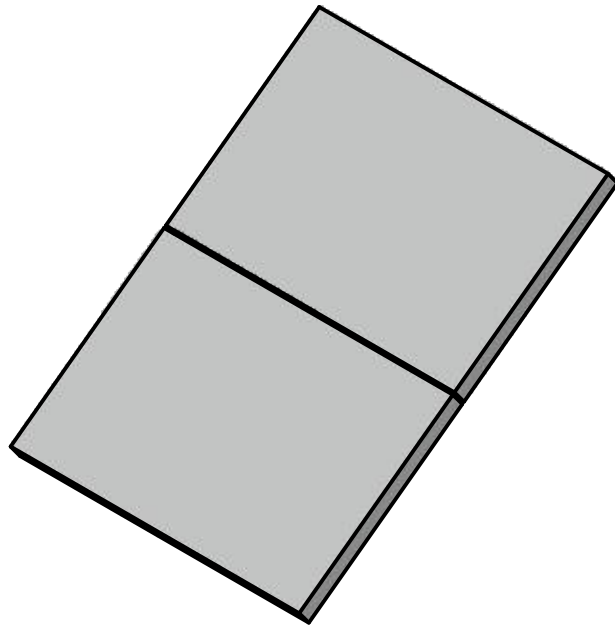
SHEET NUMBER:  
S-1



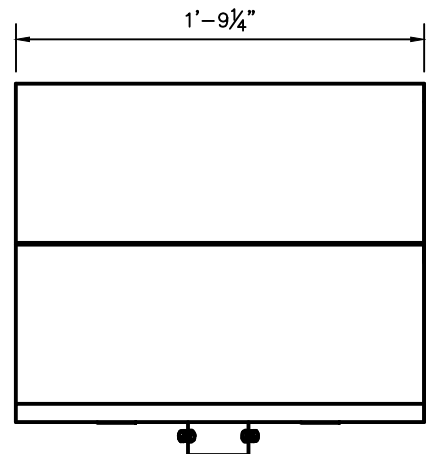
K:\RAL-Wireless\Flock Safety\KHFS-919 (WI) (Aluminum Direct Embed)\CAD\2023.04.27\_POLE DETAIL\_Aluminum Direct-Embed (RC I)\_Provelli (WI)\_RO.dwg ----- 04/28/23 3:05 PM by: greg.vanmaaren



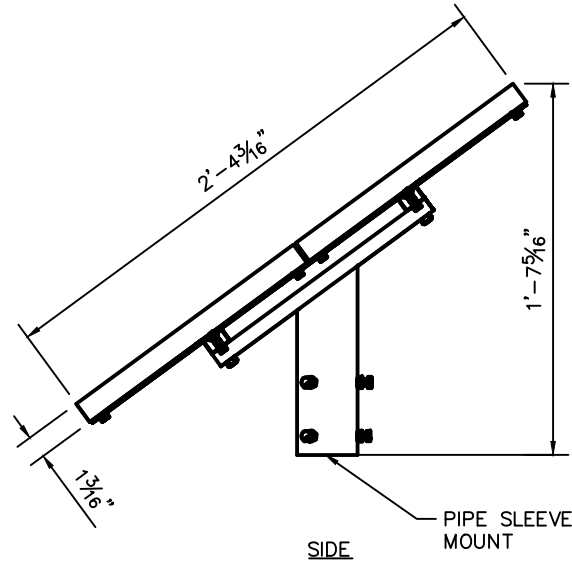
60 WATT SOLAR PANEL WEIGHT = 30 LB. (APPROX.)



ISOMETRIC



FRONT

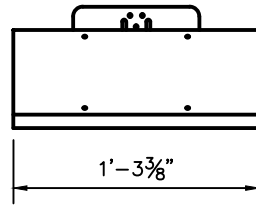


SIDE

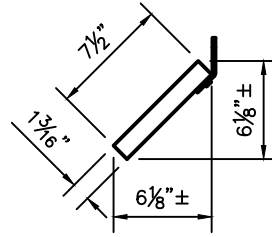
MOUNTING HARDWARE TO BE  
PROVIDED BY FLOCK SAFETY

**60 WATT SOLAR PANEL DETAIL (TOP MOUNTED)**

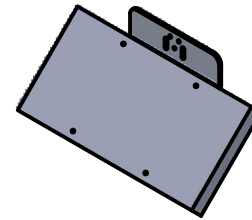
10 WATT SOLAR PANEL WEIGHT = 3 LB. (APPROX.)



FRONT



SIDE

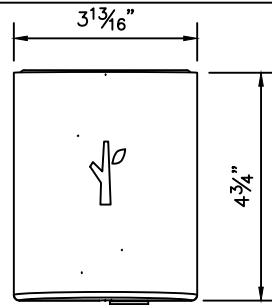


ISOMETRIC

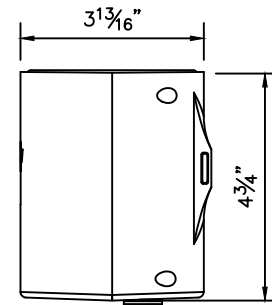
**10 WATT SOLAR PANEL DETAIL**

MOUNTING HARDWARE TO BE  
PROVIDED BY FLOCK SAFETY

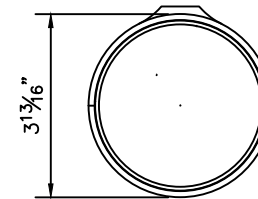
"RAVEN" EQUIPMENT WEIGHT = 2 LB. (APPROX.)



FRONT



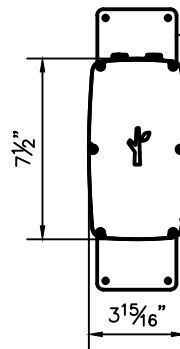
SIDE



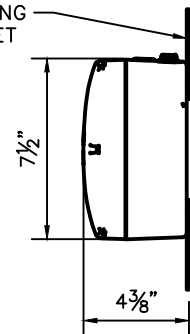
TOP

**"RAVEN" EQUIPMENT**

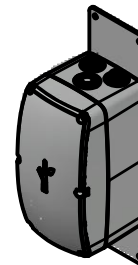
MOUNTING HARDWARE TO BE  
PROVIDED BY FLOCK SAFETY



FRONT



SIDE

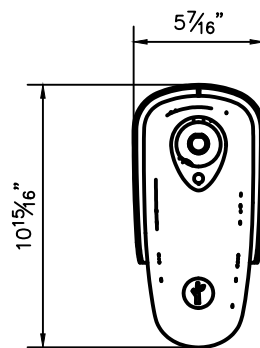


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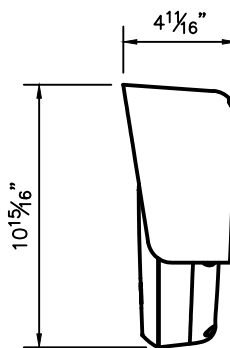
"PENGUIN" BATTERY PACK  
WEIGHT = 5 LB. (APPROX.)

**"PENGUIN" BATTERY PACK**

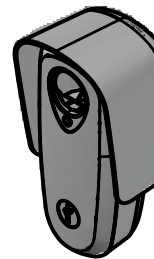
BATTERY PACKS TO BE MOUNTED  
BEHIND 60W SOLAR PANEL



FRONT



SIDE



ISOMETRIC

"FALCON" CAMERA  
WEIGHT = 5 LB. (APPROX.)

**FLOCK SAFETY "FALCON" CAMERA**

MOUNTING HARDWARE TO BE  
PROVIDED BY FLOCK SAFETY

**flock safety**

PROJECT INFORMATION:

STANDARD  
CONFIGURATION DETAILS  
(DIRECT EMBED SYSTEM)  
AUTOMATIC LICENSE  
PLATE READER AND  
SOLAR PANEL SYSTEM

PLANS PREPARED BY:

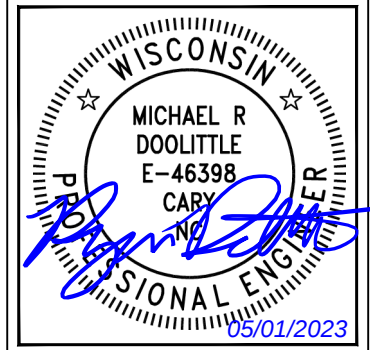
**Kimley»Horn**

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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LICENSER:



KHA PROJECT NUMBER:

014681002

DRAWN BY: CHECKED BY:

MRD

MRD

SHEET TITLE:

**EQUIPMENT  
DETAILS**

SHEET NUMBER:

**S-2**



K:\RAL\_Wireless\Flock Safety\KHFS-919 (WI) (Aluminum Direct Embed)\CAD\2023\04\27\_POLE DETAIL\_Aluminum Direct-Embed (RC I) Provelli (WI)\_R0.dwg 04/28/23 3:05 PM by: greg.vanmaaren

FOUNDATION DESIGN NOTES

1. FOUNDATION DESIGN REACTIONS ARE BASED ON INTERNAL CALCULATIONS BY KIMLEY–HORN. ANALYSIS CRITERIA CAN BE FOUND ON SHEET S–1.
2. FOUNDATION MAY BE CAST–IN–PLACE, OR PRECAST.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI

3.A. MIX DESIGN TO BE IN ACCORDANCE WITH ACI 318, CHAPTER 26

3.B. COARSE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33 SIZE #57

3.C. COLD WEATHER PLACEMENT SHALL COMPLY WITH ACI 306.1

3.D. HOT WEATHER PLACEMENT SHALL COMPLY WITH ACI 305 R
4. ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1"
5. CONTRACTOR SHALL VERIFY THAT THE PROPOSED FOUNDATION CAN BE BUILT AS SHOWN. CONTRACTOR SHALL OBTAIN EOR APPROVAL FOR ANY CHANGES TO THE PROPOSED DESIGN.
6. CONTRACTOR SHALL FIELD VERIFY THE PRESENCE OF GROUNDWATER IN THE TOP 10–FT OF SOIL PRIOR TO CONSTRUCTION. IF GROUNDWATER IS ENCOUNTERED, ONE OF THE FOLLOWING METHODS SHALL BE IMPLEMENTED:

6.A. THE CONTRACTOR SHALL PUMP EXCESS WATER OUT OF A BORE HOLE THROUGHOUT INSTALLATION PROCESS.

6.B. THE FOUNDATION MAY BE INSTALLED INSIDE INSIDE OF A SONOTUBE THAT EXTENDS TO THE FULL EMBEDMENT DEPTH. SOIL BACKFILL SHALL BE PROPERLY COMPACTED TO A MINIMUM OF 95% OF STANDARD MAXIMUM DENSITY (ASTM D 698, 100 PCF MINIMUM).

6.C. A PL $\frac{1}{4}$ " TEMPORARY CASING MAY BE USED DURING INSTALLATION. THE CASING SHALL BE EXTRACTED AS THE CONCRETE IS PLACED SUCH THAT A HEAD OF CONCRETE IS MAINTAINED ABOVE THE BOTTOM OF THE CASING TO PREVENT WATER INTRUSION INTO THE CONCRETE MIX.

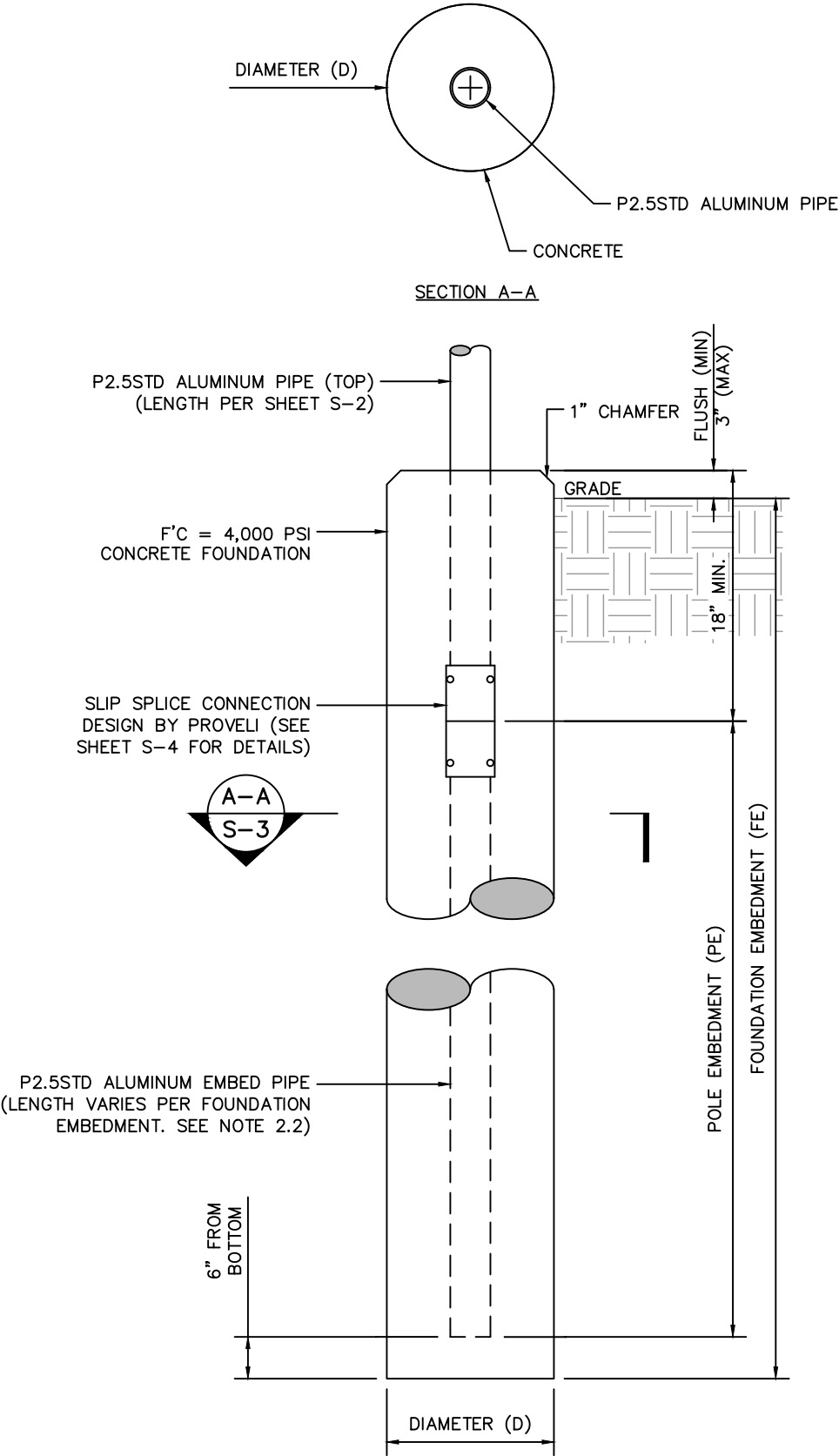
| FOUNDATION DESIGN TABLE |                           |                      |
|-------------------------|---------------------------|----------------------|
| DIAMETER (D)            | FOUNDATION EMBEDMENT (FE) | POLE EMBEDMENT (PE)  |
| 12"Ø                    | 5'–0" (SEE NOTE 2)        | 3'–0" (SEE NOTE 2.1) |

DESIGN TABLE NOTES:

1. DRAWINGS DENOTE A GENERIC FOUNDATION CONFIGURATION AND ARE NOT TO SCALE. REFER TO TABLE ABOVE FOR OVERALL DIMENSIONS.
2. FOUNDATION EMBEDMENT (FE) SHALL BE THE MAXIMUM OF THE DIMENSIONS SPECIFIED, OR 6" BELOW THE FROST DEPTH APPLICABLE TO THE SITE–SPECIFIC LOCATION. CONTRACTOR SHALL VERIFY FROST DEPTH PRIOR TO CONSTRUCTION. SEE SHEET R–1 FOR ADDITIONAL INFORMATION.

2.1. POLE EMBEDMENT (PE) SHALL TERMINATE 6" LESS THAN THE FOUNDATION EMBEDMENT (FE) FOR ALL FINAL CONFIGURATIONS.

2.2. FINAL EMBED PIPE LENGTH SHALL BE THE SPECIFIED FOUNDATION EMBEDMENT (FE) REQUIRED TO MEET FROST DEPTH REQUIREMENTS MINUS 2–FT. FINAL EMBED PIPE SIZES MAY VARY ACCORDINGLY, FIELD CUT TO LENGTH AS REQUIRED.
- 2.3. PIPES SHALL BE JOINED TOGETHER IN ACCORDANCE WITH REFERENCED PROVELI SLIP SPLICED CONNECTION DETAIL. CONTACT PROVELI FOR DESIGN STRENGTH CALCULATIONS.



1 FOUNDATION DETAIL  
S-3 SCALE: N/A

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PROJECT INFORMATION: \_\_\_\_\_  
STANDARD  
CONFIGURATION DETAILS  
(DIRECT EMBED SYSTEM)  
AUTOMATIC LICENSE  
PLATE READER AND  
SOLAR PANEL SYSTEM

PLANS PREPARED BY: \_\_\_\_\_  
**Kimley»Horn**  
817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
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PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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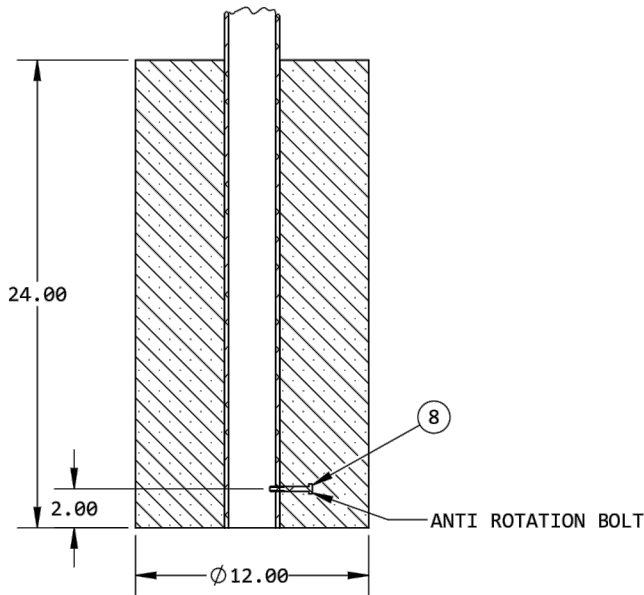
KHA PROJECT NUMBER: \_\_\_\_\_  
014681002  
DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
MRD MRD

SHEET TITLE: \_\_\_\_\_  
**FOUNDATION  
DETAILS**  
SHEET NUMBER: \_\_\_\_\_  
**S-3**

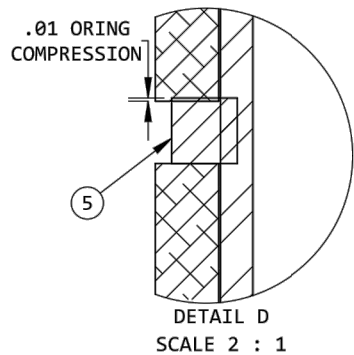


K:\RAL\_Wireless\Flock Safety\KHFS-919 (WI) (Aluminum Direct Embed)\CAD\2023\04\27\_POLE DETAIL Aluminum Direct-Embed (RC I) Provelli (WI) RD.dwg ----- 04/28/23 3:05 PM by: greg.vanmaaren

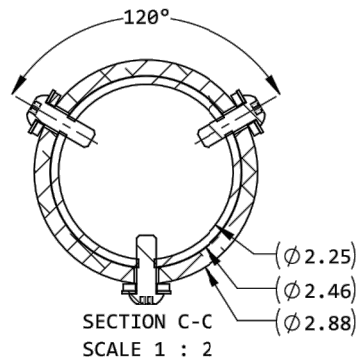
| # | DESCRIPTION                        | QTY. |
|---|------------------------------------|------|
| 1 | 2.5" SCH 40 2.8750D 74.000L        | 1    |
| 2 | 2.5" SCH 40 2.8750D 94.000L        | 1    |
| 3 | BUT TORX 0.250-20 TAMPER-RESISTANT | 6    |
| 4 | INSERT SLEEVE STYLE 7 TAPPED       | 1    |
| 5 | ORING                              | 1    |
| 6 | WASHER                             | 6    |
| 7 | CONCRETE FOOTING                   | 1    |
| 8 | HBOLT 0.2500-20                    | 1    |



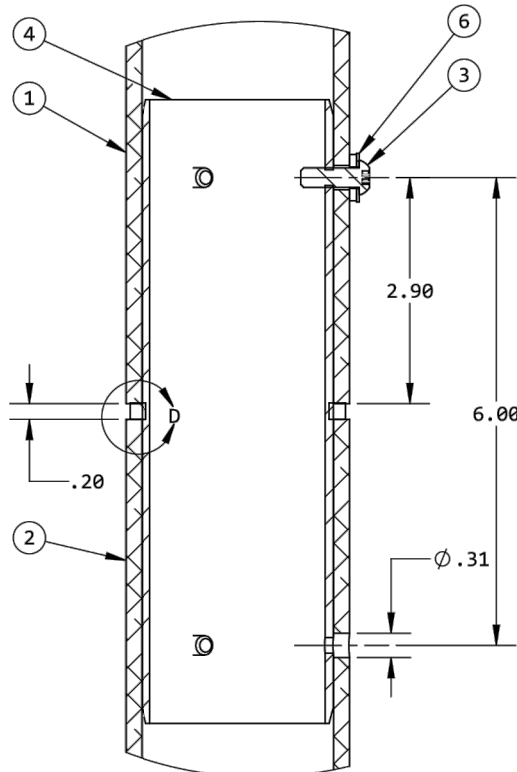
DETAIL E  
SCALE 1 : 8



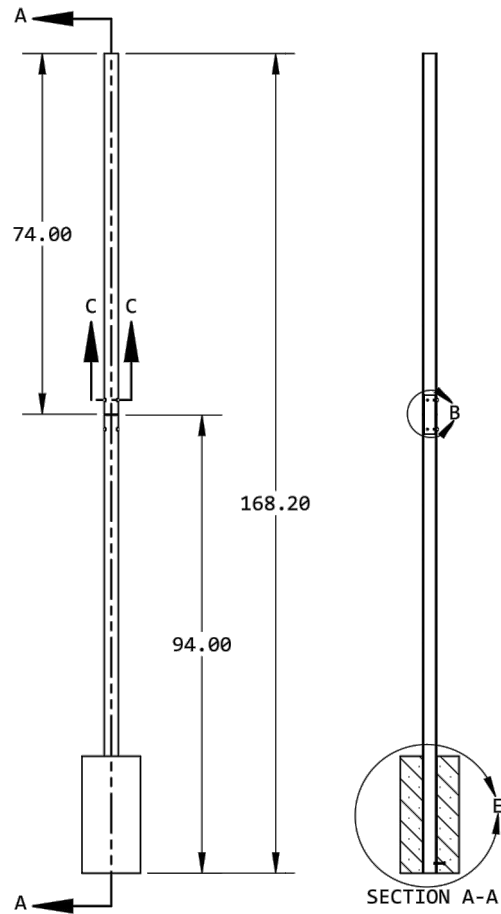
DETAIL D  
SCALE 2 : 1



SECTION C-C  
SCALE 1 : 2



DETAIL B  
SCALE 1 : 2



SECTION A-A

|                                                                                       |      |          |
|---------------------------------------------------------------------------------------|------|----------|
|  | BY   | CSC      |
|                                                                                       | DATE | 9/3/2019 |
| DESCRIPTION:<br>STYLE 7 COUPLER ASSEMBLY                                              | REV  | B        |
|                                                                                       |      |          |
| PART #: 1020-01                                                                       |      |          |
| DIM ARE IN INCHES                                                                     |      |          |
| TOLERANCES: (REF)                                                                     |      |          |
| FRACTION: 1/16                                                                        |      |          |
| ANGLE: ±1.0°                                                                          |      |          |
| X.XX ±0.03                                                                            |      |          |
| X.XXX ±0.015                                                                          |      |          |
| X.XXXX ±0.0050                                                                        |      |          |
| MATERIAL:<br>VARIES                                                                   |      |          |
| WEIGHT:<br>168.42 LBS                                                                 |      |          |
| DO NOT SCALE DRAWING                                                                  |      |          |
| SIZE: DWG #:                                                                          |      |          |
| B PIPE COUPLER ASM                                                                    |      |          |
| SCALE 1:32 SHEET 2 OF 1                                                               |      |          |

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PROJECT INFORMATION:

STANDARD  
CONFIGURATION DETAILS  
(DIRECT EMBED SYSTEM)  
AUTOMATIC LICENSE  
PLATE READER AND  
SOLAR PANEL SYSTEM

PLANS PREPARED BY:

**Kimley»Horn**

817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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LICENSER:

FOR REFERENCE  
ONLY

KHA PROJECT NUMBER:

014681002

DRAWN BY: CHECKED BY:

MRD

MRD

SHEET TITLE:

EQUIPMENT  
DETAILS

SHEET NUMBER:

S-4

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FROST DEPTH NOTES

1. ESTIMATED FROST DEPTHS FOR VARIOUS COUNTIES ARE LISTED IN THE PROVIDED TABLES.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING FROST DEPTHS WITH THE LOCAL JURISDICTION REQUIREMENTS.



| State | County      | Design Frost Depth (in.) |
|-------|-------------|--------------------------|
| WI    | ADAMS       | 70                       |
| WI    | ASHLAND     | 80                       |
| WI    | BARRON      | 80                       |
| WI    | BAYFIELD    | 80                       |
| WI    | BROWN       | 60                       |
| WI    | BUFFALO     | 80                       |
| WI    | BURNETT     | 80                       |
| WI    | CALUMET     | 60                       |
| WI    | CHIPPEWA    | 80                       |
| WI    | CLARK       | 70                       |
| WI    | COLUMBIA    | 60                       |
| WI    | CRAWFORD    | 70                       |
| WI    | DANE        | 60                       |
| WI    | DODGE       | 60                       |
| WI    | DOOR        | 60                       |
| WI    | DOUGLAS     | 80                       |
| WI    | DUNN        | 80                       |
| WI    | EAU CLAIRE  | 80                       |
| WI    | FLORENCE    | 70                       |
| WI    | FOND DU LAC | 60                       |
| WI    | FOREST      | 70                       |
| WI    | GRANT       | 60                       |
| WI    | GREEN       | 60                       |
| WI    | GREEN LAKE  | 70                       |
| WI    | IOWA        | 60                       |
| WI    | IRON        | 80                       |
| WI    | JACKSON     | 80                       |
| WI    | JEFFERSON   | 60                       |
| WI    | JUNEAU      | 70                       |
| WI    | KENOSHA     | 60                       |
| WI    | KEWAUNEE    | 60                       |
| WI    | LA CROSSE   | 70                       |
| WI    | LAFAYETTE   | 60                       |
| WI    | LANGLADE    | 70                       |
| WI    | LINCOLN     | 80                       |
| WI    | MANITOWOC   | 60                       |
| WI    | MARATHON    | 80                       |
| WI    | MARINETTE   | 60                       |
| WI    | MARQUETTE   | 70                       |
| WI    | MENOMINEE   | 70                       |
| WI    | MILWAUKEE   | 60                       |
| WI    | MONROE      | 70                       |
| WI    | OCONTO      | 60                       |
| WI    | ONEIDA      | 80                       |
| WI    | OUTAGAMIE   | 70                       |
| WI    | OZAUKEE     | 60                       |

| State | County      | Design Frost Depth (in.) |
|-------|-------------|--------------------------|
| WI    | PEPIN       | 80                       |
| WI    | PIERCE      | 80                       |
| WI    | POLK        | 80                       |
| WI    | PORTAGE     | 70                       |
| WI    | PRICE       | 80                       |
| WI    | RACINE      | 60                       |
| WI    | RICHLAND    | 70                       |
| WI    | ROCK        | 60                       |
| WI    | RUSK        | 80                       |
| WI    | SAINT CROIX | 80                       |
| WI    | SAUK        | 70                       |
| WI    | SAWYER      | 80                       |
| WI    | SHAWANO     | 70                       |
| WI    | SHEBOYGAN   | 60                       |
| WI    | TAYLOR      | 80                       |
| WI    | TREMPEALEAU | 80                       |
| WI    | VERNON      | 70                       |
| WI    | VILAS       | 80                       |
| WI    | WALWORTH    | 60                       |
| WI    | WASHBURN    | 80                       |
| WI    | WASHINGTON  | 60                       |
| WI    | WAUKESHA    | 60                       |
| WI    | WAUPACA     | 70                       |
| WI    | WAUSHARA    | 70                       |
| WI    | WINNEBAGO   | 70                       |
| WI    | WOOD        | 70                       |

flock safety

PROJECT INFORMATION: \_\_\_\_\_  
STANDARD  
CONFIGURATION DETAILS  
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AUTOMATIC LICENSE  
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PLANS PREPARED BY: \_\_\_\_\_  
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| 0          | 04/28/23    | CONSTRUCTION      | MRD       |

LICENSER: \_\_\_\_\_

WISCONSIN

MICHAEL R DOOLITTLE

E-46398

CARY

PROFESSIONAL ENGINEER

05/01/2023

KHA PROJECT NUMBER: \_\_\_\_\_  
014681002  
DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
MRD MRD

SHEET TITLE: \_\_\_\_\_  
**FROST DEPTH REQUIREMENTS**  
SHEET NUMBER: \_\_\_\_\_  
**R-1**



K:\RAL\_Wireless\Flock Safety\KHS-919 (WI) (Aluminum Direct Embed)\CAD\2023.04.27\_POLE DETAIL Aluminum Direct-Embed (RC V)\_Provelli (WI)\_R0.dwg ----- 04/28/23 3:07 PM by: greg.vanmaaren



STATE OF WISCONSIN

PARTIAL CONFIGURATION DETAILS  
AUTOTMATIC LICENSE PLATE READER  
AND SOLAR PANEL SYSTEM

(DIRECT EMBED SYSTEM WITH PROVELI SPLICE)

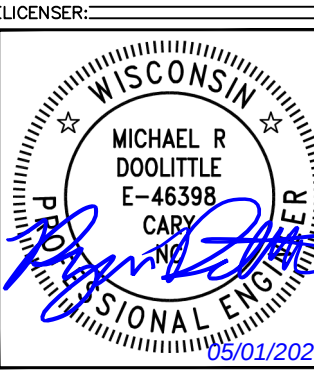
| INDEX OF SHEETS |                                      |     |
|-----------------|--------------------------------------|-----|
| SHEET           | DESCRIPTION                          | REV |
| T-1             | TITLE SHEET                          | 0   |
| S-1             | GENERAL NOTES & POLE ASSEMBLY DETAIL | 0   |
| S-2             | EQUIPMENT DETAILS                    | 0   |
| S-3             | FOUNDATION DETAILS                   | 0   |
| S-4             | EQUIPMENT DETAILS                    | 0   |
| R-1             | FROST DEPTH INFORMATION              | 0   |
|                 |                                      |     |
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flock safety™

PROJECT INFORMATION:  
STANDARD  
CONFIGURATION DETAILS  
(DIRECT EMBED SYSTEM)  
AUTOMATIC LICENSE  
PLATE READER AND  
SOLAR PANEL SYSTEM

PLANS PREPARED BY:  
**Kimley»Horn**  
817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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| 0    | 04/28/23 | CONSTRUCTION | MRD |



KHA PROJECT NUMBER:  
014681002

DRAWN BY: MRD CHECKED BY: MRD

SHEET TITLE:  
TITLE SHEET

SHEET NUMBER:  
T-1



K:\RAL\_Wireless\Flock Safety\KHS-919 (WI) (Aluminum Direct Embed)\CAD\2023\04\27\_POLE DETAIL Aluminum Direct-Embed (RC V)\_Provelli (WI)\_R0.dwg 04/28/23 3:07 PM by: greg.vanmooren

DESIGN NOTES

1. POLE AND FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES:

1.1. 2015 INTERNATIONAL BUILDING CODE

1.2. AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2015 EDITION.
2. POLE ANALYSIS AND FOUNDATION DESIGN ARE BASED ON THE FOLLOWING CRITERIA:

2.1. DESIGN WND SPEED (Vult): 120 MPH (MAXIMUM)

2.2. RISK CATEGORY: TYPICAL / ADT > 10,000 (1,700-YEAR MRI)

2.3. EXPOSURE CATEGORY: C

2.4. TOPOGRAPHIC CATEGORY: 1

2.5. SEISMIC DESIGN CRITERIA:

2.5.1. SOIL SITE CLASS: D (ASSUMED)

2.5.2. SPECTRAL RESPONSE, Ss: 0.100g (MAXIMUM)

2.5.3. SPECTRAL RESPONSE, S1: 0.050g (MAXIMUM)

2.5.4. SEISMIC DESIGN CATEGORY: D

2.6. FACTORED STRUCTURE BASE REACTIONS ARE CALCULATED AS FOLLOWS:

ULTIMATE BASE MOMENT: 2,300 LB-FT

ULTIMATE BASE SHEAR: 280 LB

ULTIMATE BASE AXIAL: 100 LB

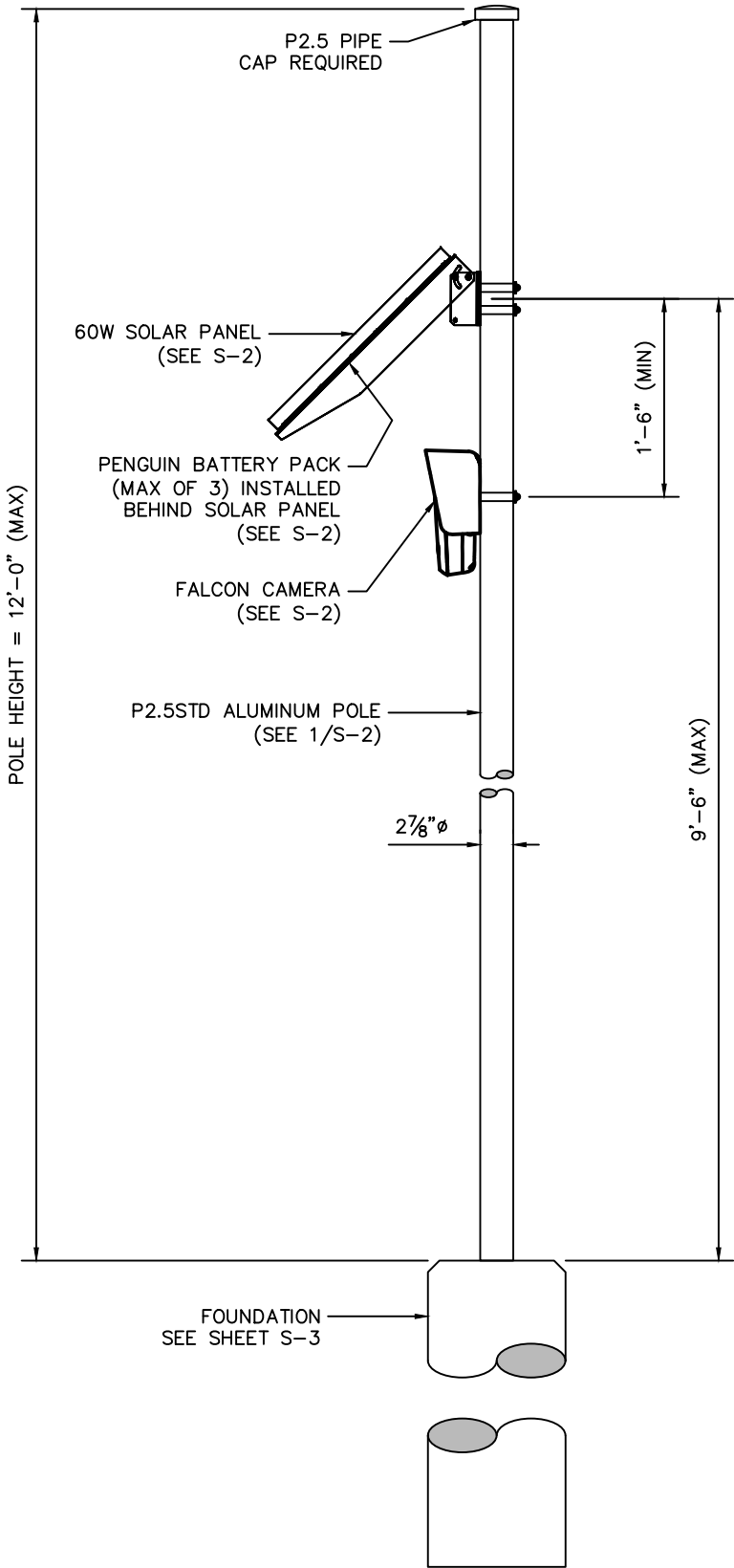
2.7. SHOULD ANY OF THE SITE-SPECIFIC PARAMETERS BE HIGHER THAN WHAT IS NOTED ABOVE, THE EOR SHALL BE CONTACTED TO PROVIDE A REVISED DESIGN.
3. THE TOP OF THE FOUNDATION OUTSIDE OF THE PIPE FOOTPRINT SHALL BE SLOPED BETWEEN 1" AND 3" TO ALLOW FOR ADEQUATE DRAINAGE.
4. THE PROPOSED DETAILS OF THIS DRAWING SHALL NOT BE USED WHERE SOILS CONSIST OF SOFT CLAY, PEAT, OR SOIL WHERE A SMALL DIAMETER REBAR (#5 OR SMALLER) OR METAL PROBE PENETRATES EASILY INTO THE SOIL BY MORE THAN 6" WHEN THE FULL WEIGHT OF A PERSON IS APPLIED. IF UNEXPECTED SOIL IS FOUND ON SITE, THE CONTRACTOR SHALL CONTACT THE EOR FOR DIRECTION.

GENERAL & CONSTRUCTION NOTES

1. CONTRACTOR SHALL CONTACT DESIGNATED AGENCY TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL APPLY AND OBTAIN AN APPROVED TRAFFIC CONTROL PLAN IN ACCORDANCE WITH MUTCD AND LOCAL JURISDICTION STANDARDS.
3. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO ORIGINAL SITE CONDITION TO THE SATISFACTION OF STATE DEPARTMENT OF TRANSPORTATION AND LOCAL JURISDICTION.
4. ALL WORK SHALL CONFORM TO APPLICABLE ELECTRICAL CODES EXCEPT WHEN STATE DEPARTMENT OF TRANSPORTATION OR LOCAL JURISDICTION STANDARDS SUPERSEDE.
5. POLE AND PROPOSED EQUIPMENT SHALL BE CONNECTED TO SOLID BARE BOND GROUND AND GROUNDING ROD IN POLE FOUNDATION.
6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS DEFINED BY THE STATE DEPARTMENT OF TRANSPORTATION OR LOCAL JURISDICTION, UNLESS SPECIFICALLY STATED OR SHOWN OTHERWISE HEREIN.

ADA COMPLIANCE NOTES

1. ALL SIDEWALK CONSTRUCTION SHALL BE IN ACCORDANCE WITH ADA TITLE II, STATE DEPARTMENT OF TRANSPORTATION, AND LOCAL JURISDICTION STANDARDS.
2. STATE DEPARTMENT OF TRANSPORTATION CURRENT EDITION STANDARDS SHALL BE USED FOR PEDESTRIAN CONTROL PLANS WHEN CLOSURE OF SIDEWALK IS REQUIRED FOR CONSTRUCTION.
3. MINIMUM CLEAR PEDESTRIAN ACCESS ROUTE (PAR) SHALL BE 48" WIDE.
4. NO OBSTRUCTION IS PERMITTED ALONG THE WIDTH OF THE SIDEWALK, UP TO AN ELEVATION OF 7'-0" ABOVE GRADE.



1 POLE ELEVATION DETAIL  
S-1 SCALE: N/A

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PROJECT INFORMATION:

STANDARD  
CONFIGURATION DETAILS  
(DIRECT EMBED SYSTEM)  
AUTOMATIC LICENSE  
PLATE READER AND  
SOLAR PANEL SYSTEM

PLANS PREPARED BY:

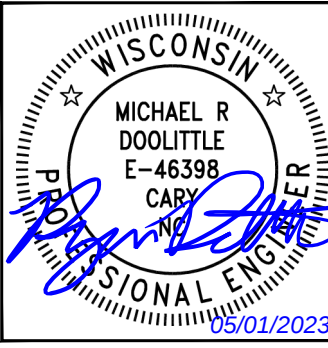
KimleyHorn

817 WEST PEACHTREE STREET,  
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REV: DATE: ISSUED FOR: BY:

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LICENSER:



KHA PROJECT NUMBER:

014681002

DRAWN BY: CHECKED BY:

MRD

MRD

SHEET TITLE:

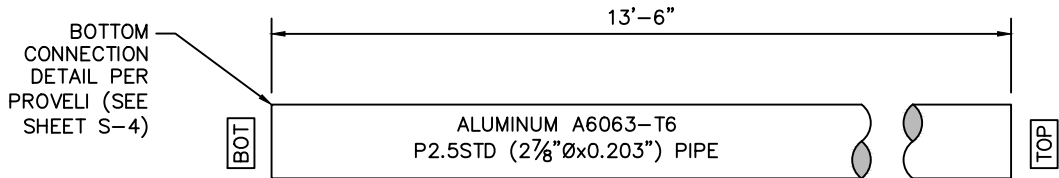
GENERAL NOTES  
AND POLE  
ASSEMBLY DETAIL

SHEET NUMBER:

S-1

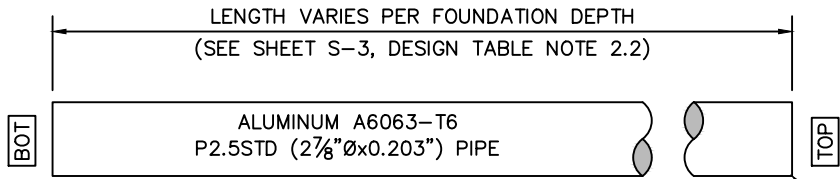


K:\RAL-Wireless\Flock Safety\KHFS-919 (WI) (Aluminum Direct Embed)\CAD\2023.04.27\_POLE DETAIL\_Aluminum Direct-Embed (RC V)\_Provelli (WI)\_R0.dwg ----- 04/28/23 3:07 PM by: greg.vanmodren



PIPE SHALL BE GALVANIZED

**PIPE DETAIL (TOP)**

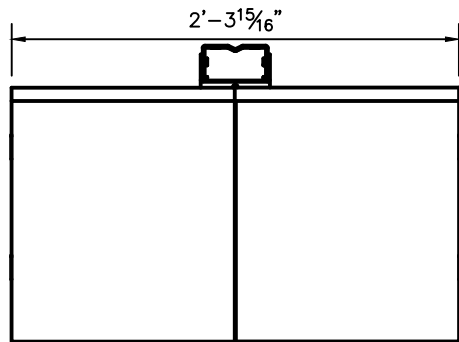


PIPE SHALL BE GALVANIZED

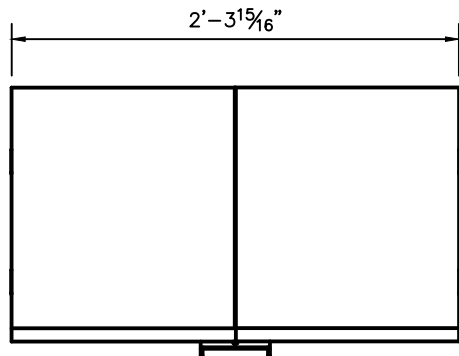
**EMBED PIPE DETAIL (BOTTOM)**

TOP CONNECTION  
DETAIL PER  
PROVLI (SEE  
SHEET S-4)

60 WATT SOLAR PANEL WEIGHT = 30 LB. (APPROX.)

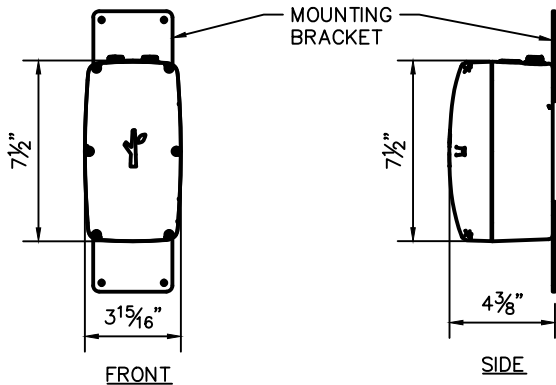
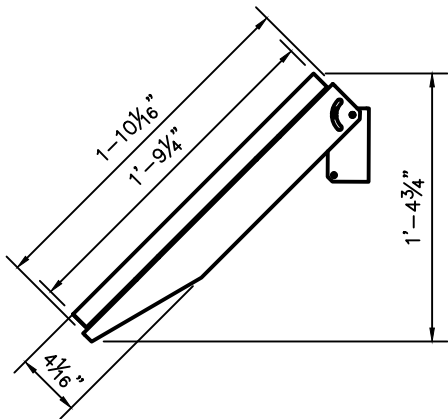


TOP



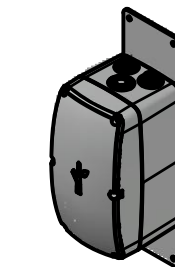
MOUNTING HARDWARE TO BE  
PROVIDED BY FLOCK SAFETY

**60 WATT SOLAR PANEL DETAIL (SIDE MOUNTED)**



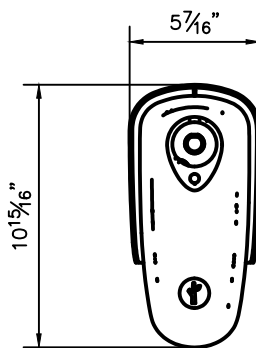
"PENGUIN" BATTERY PACK  
WEIGHT = 5 LB. (APPROX.)

**"PENGUIN" BATTERY PACK**



ISOMETRIC

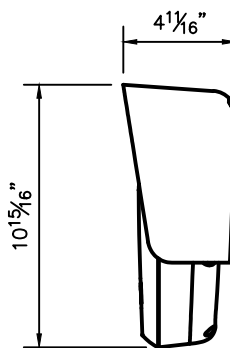
BATTERY PACKS TO BE MOUNTED  
BEHIND 60W SOLAR PANEL



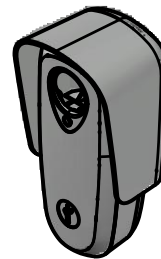
FRONT

"FALCON" CAMERA  
WEIGHT = 5 LB. (APPROX.)

**FLOCK SAFETY "FALCON" CAMERA**



SIDE



ISOMETRIC

MOUNTING HARDWARE TO BE  
PROVIDED BY FLOCK SAFETY

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PROJECT INFORMATION:

STANDARD  
CONFIGURATION DETAILS  
(DIRECT EMBED SYSTEM)  
AUTOMATIC LICENSE  
PLATE READER AND  
SOLAR PANEL SYSTEM

PLANS PREPARED BY:

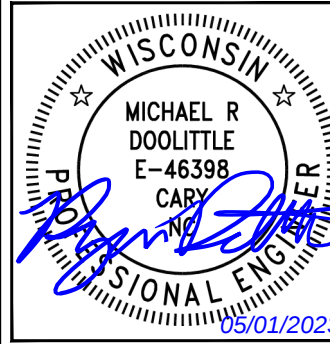
**Kimley»Horn**

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LICENSER:



KHA PROJECT NUMBER:

014681002

DRAWN BY: CHECKED BY:

MRD

MRD

SHEET TITLE:

EQUIPMENT  
DETAILS

SHEET NUMBER:

S-2



K:\RAL\_Wireless\Flock Safety\KHFS-919 (W) (Aluminum Direct Embed)\CAD\2023\04\27\_POLE DETAIL\_Aluminum Direct-Embed (RC V)\_Provelli (W)\_R0.dwg ----- 04/28/23 3:07 PM by: greg.vamodaren

FOUNDATION DESIGN NOTES

1. FOUNDATION DESIGN REACTIONS ARE BASED ON INTERNAL CALCULATIONS BY KIMLEY–HORN. ANALYSIS CRITERIA CAN BE FOUND ON SHEET S–1.
2. FOUNDATION MAY BE CAST-IN-PLACE, OR PRECAST.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI

3.A. MIX DESIGN TO BE IN ACCORDANCE WITH ACI 318, CHAPTER 26

3.B. COARSE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33 SIZE #57

3.C. COLD WEATHER PLACEMENT SHALL COMPLY WITH ACI 306.1

3.D. HOT WEATHER PLACEMENT SHALL COMPLY WITH ACI 305 R
4. ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1"
5. CONTRACTOR SHALL VERIFY THAT THE PROPOSED FOUNDATION CAN BE BUILT AS SHOWN. CONTRACTOR SHALL OBTAIN EOR APPROVAL FOR ANY CHANGES TO THE PROPOSED DESIGN.
6. CONTRACTOR SHALL FIELD VERIFY THE PRESENCE OF GROUNDWATER IN THE TOP 10–FT OF SOIL PRIOR TO CONSTRUCTION. IF GROUNDWATER IS ENCOUNTERED, ONE OF THE FOLLOWING METHODS SHALL BE IMPLEMENTED:

6.A. THE CONTRACTOR SHALL PUMP EXCESS WATER OUT OF A BORE HOLE THROUGHOUT INSTALLATION PROCESS.

6.B. THE FOUNDATION MAY BE INSTALLED INSIDE INSIDE OF A SONOTUBE THAT EXTENDS TO THE FULL EMBEDMENT DEPTH. SOIL BACKFILL SHALL BE PROPERLY COMPACTED TO A MINIMUM OF 95% OF STANDARD MAXIMUM DENSITY (ASTM D 698, 100 PCF MINIMUM).

6.C. A PL $\frac{1}{4}$ " TEMPORARY CASING MAY BE USED DURING INSTALLATION. THE CASING SHALL BE EXTRACTED AS THE CONCRETE IS PLACED SUCH THAT A HEAD OF CONCRETE IS MAINTAINED ABOVE THE BOTTOM OF THE CASING TO PREVENT WATER INTRUSION INTO THE CONCRETE MIX.

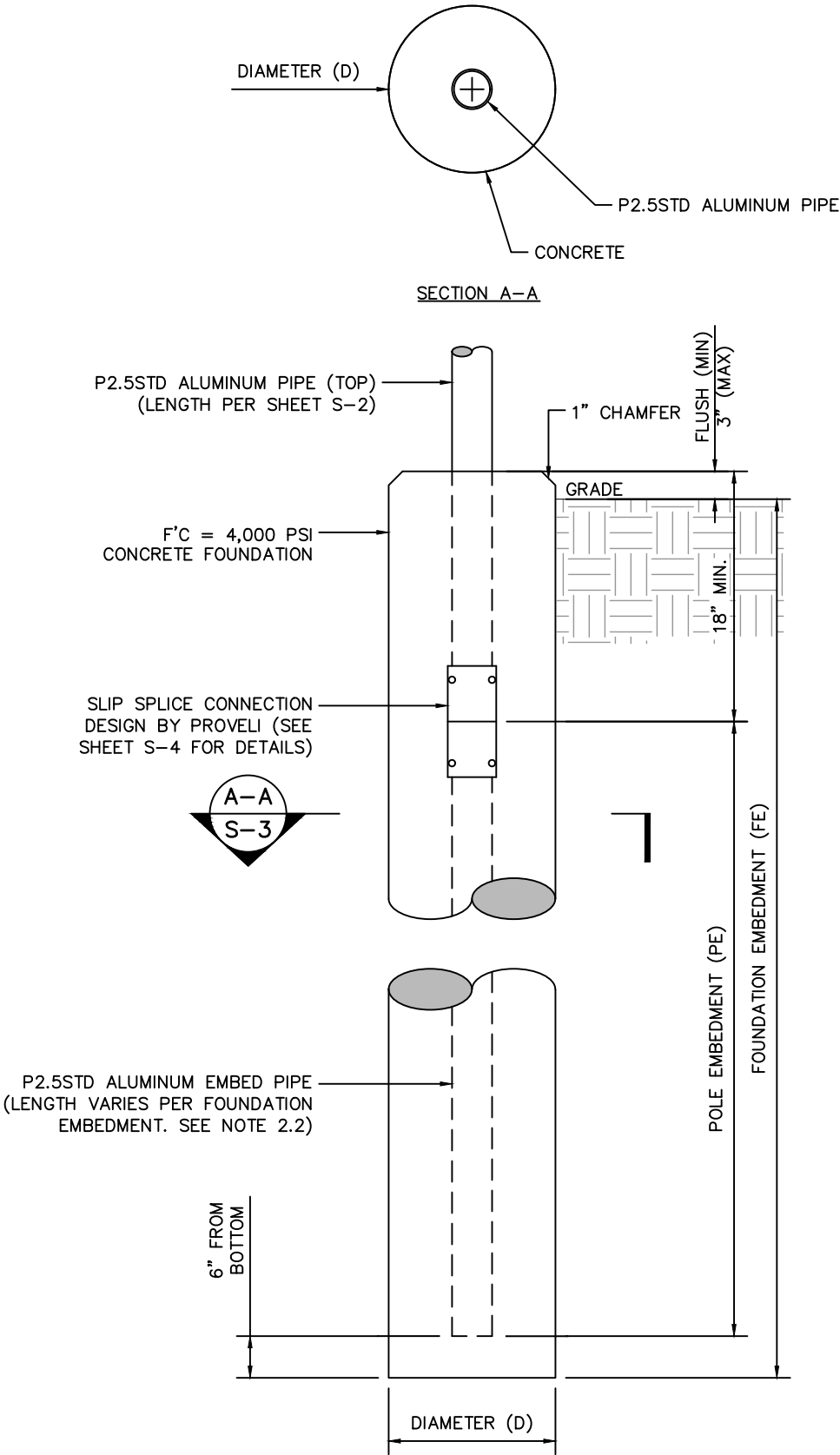
| FOUNDATION DESIGN TABLE |                           |                      |
|-------------------------|---------------------------|----------------------|
| DIAMETER (D)            | FOUNDATION EMBEDMENT (FE) | POLE EMBEDMENT (PE)  |
| 12"Ø                    | 5'–0" (SEE NOTE 2)        | 3'–0" (SEE NOTE 2.1) |

DESIGN TABLE NOTES:

1. DRAWINGS DENOTE A GENERIC FOUNDATION CONFIGURATION AND ARE NOT TO SCALE. REFER TO TABLE ABOVE FOR OVERALL DIMENSIONS.
2. FOUNDATION EMBEDMENT (FE) SHALL BE THE MAXIMUM OF THE DIMENSIONS SPECIFIED, OR 6" BELOW THE FROST DEPTH APPLICABLE TO THE SITE–SPECIFIC LOCATION. CONTRACTOR SHALL VERIFY FROST DEPTH PRIOR TO CONSTRUCTION. SEE SHEET R–1 FOR ADDITIONAL INFORMATION.

2.1. POLE EMBEDMENT (PE) SHALL TERMINATE 6" LESS THAN THE FOUNDATION EMBEDMENT (FE) FOR ALL FINAL CONFIGURATIONS.

2.2. FINAL EMBED PIPE LENGTH SHALL BE THE SPECIFIED FOUNDATION EMBEDMENT (FE) REQUIRED TO MEET FROST DEPTH REQUIREMENTS MINUS 2–FT. FINAL EMBED PIPE SIZES MAY VARY ACCORDINGLY, FIELD CUT TO LENGTH AS REQUIRED.
- 2.3. PIPES SHALL BE JOINED TOGETHER IN ACCORDANCE WITH REFERENCED PROVELI SLIP SPLICED CONNECTION DETAIL. CONTACT PROVELI FOR DESIGN STRENGTH CALCULATIONS.



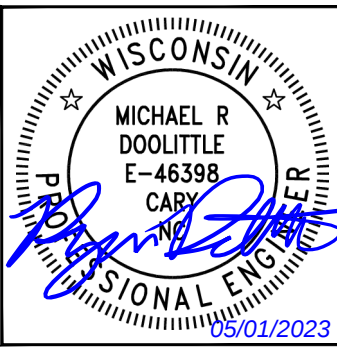
1 FOUNDATION DETAIL  
S-3 SCALE: N/A

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PROJECT INFORMATION: \_\_\_\_\_  
STANDARD  
CONFIGURATION DETAILS  
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AUTOMATIC LICENSE  
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PLANS PREPARED BY: \_\_\_\_\_  
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05/01/2023

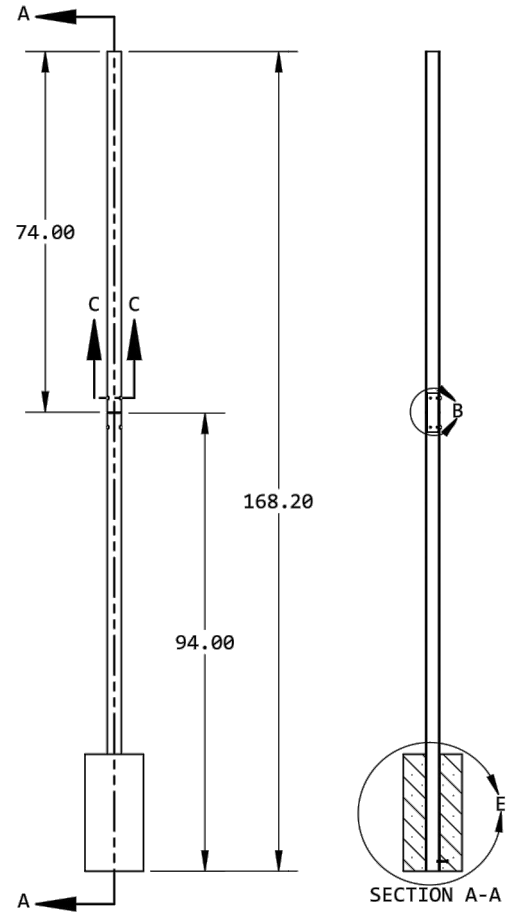
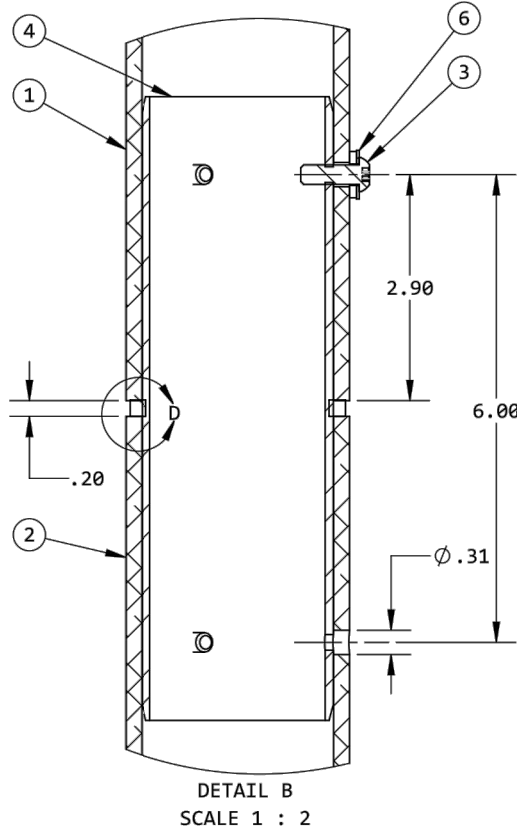
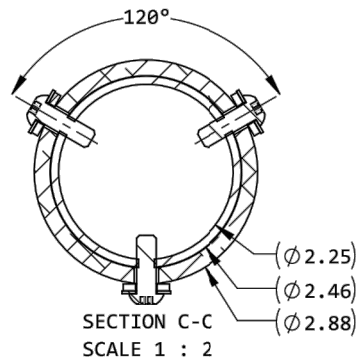
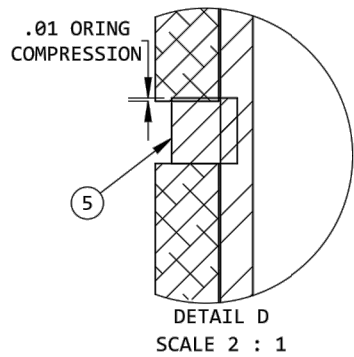
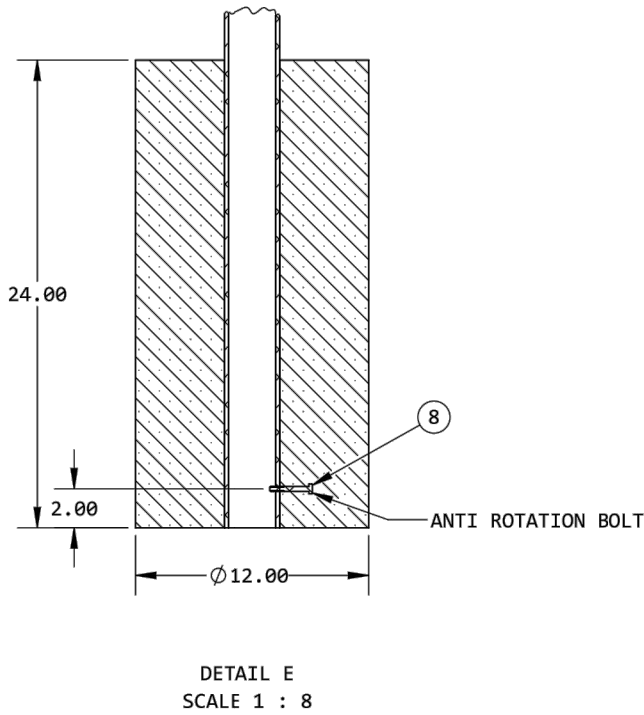
KHA PROJECT NUMBER: \_\_\_\_\_  
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MRD MRD

SHEET TITLE: \_\_\_\_\_  
**FOUNDATION  
DETAILS**  
SHEET NUMBER: \_\_\_\_\_  
**S-3**



K:\RAL\_Wireless\Flock Safety\KHFS-919 (WI) (Aluminum Direct Embed)\CAD\2023\04\27\_POLE DETAIL Aluminum Direct-Embed (RC V)\_Provelli (WI)\_R0.dwg ----- 04/28/23 3:07 PM by: greg.vanmaaren

| # | DESCRIPTION                        | QTY. |
|---|------------------------------------|------|
| 1 | 2.5" SCH 40 2.8750D 74.000L        | 1    |
| 2 | 2.5" SCH 40 2.8750D 94.000L        | 1    |
| 3 | BUT TORX 0.250-20 TAMPER-RESISTANT | 6    |
| 4 | INSERT SLEEVE STYLE 7 TAPPED       | 1    |
| 5 | ORING                              | 1    |
| 6 | WASHER                             | 6    |
| 7 | CONCRETE FOOTING                   | 1    |
| 8 | HBOLT 0.2500-20                    | 1    |



|                          |          |
|--------------------------|----------|
| BY                       | CSC      |
| DATE                     | 9/3/2019 |
| REV                      | B        |
| DESCRIPTION:             |          |
| STYLE 7 COUPLER ASSEMBLY |          |
| PART #: 1020-01          |          |
| DIM ARE IN INCHES        |          |
| TOLERANCES: (REF)        |          |
| FRACTION 1/16            |          |
| ANGLE ±1.0°              |          |
| X.XX ±0.03               |          |
| X.XXX ±0.015             |          |
| X.XXXX ±0.0050           |          |
| MATERIAL:                |          |
| VARIES                   |          |
| WEIGHT:                  |          |
| 168.42 LBS               |          |
| DO NOT SCALE DRAWING     |          |
| SIZE: DWG #:             |          |
| B PIPE COUPLER ASM       |          |
| SCALE 1:32 SHEET 2 OF 1  |          |

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PROJECT INFORMATION:

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PLANS PREPARED BY:

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PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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| 0 | 04/28/23 | CONSTRUCTION | MRD |

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FOR REFERENCE  
ONLY

KHA PROJECT NUMBER:

014681002

DRAWN BY: CHECKED BY:

MRD

MRD

SHEET TITLE:

EQUIPMENT  
DETAILS

SHEET NUMBER:

S-4

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FROST DEPTH NOTES

1. ESTIMATED FROST DEPTHS FOR VARIOUS COUNTIES ARE LISTED IN THE PROVIDED TABLES.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING FROST DEPTHS WITH THE LOCAL JURISDICTION REQUIREMENTS.



| State | County      | Design Frost Depth (in.) |
|-------|-------------|--------------------------|
| WI    | ADAMS       | 70                       |
| WI    | ASHLAND     | 80                       |
| WI    | BARRON      | 80                       |
| WI    | BAYFIELD    | 80                       |
| WI    | BROWN       | 60                       |
| WI    | BUFFALO     | 80                       |
| WI    | BURNETT     | 80                       |
| WI    | CALUMET     | 60                       |
| WI    | CHIPPEWA    | 80                       |
| WI    | CLARK       | 70                       |
| WI    | COLUMBIA    | 60                       |
| WI    | CRAWFORD    | 70                       |
| WI    | DANE        | 60                       |
| WI    | DODGE       | 60                       |
| WI    | DOOR        | 60                       |
| WI    | DOUGLAS     | 80                       |
| WI    | DUNN        | 80                       |
| WI    | EAU CLAIRE  | 80                       |
| WI    | FLORENCE    | 70                       |
| WI    | FOND DU LAC | 60                       |
| WI    | FOREST      | 70                       |
| WI    | GRANT       | 60                       |
| WI    | GREEN       | 60                       |
| WI    | GREEN LAKE  | 70                       |
| WI    | IOWA        | 60                       |
| WI    | IRON        | 80                       |
| WI    | JACKSON     | 80                       |
| WI    | JEFFERSON   | 60                       |
| WI    | JUNEAU      | 70                       |
| WI    | KENOSHA     | 60                       |
| WI    | KEWAUNEE    | 60                       |
| WI    | LA CROSSE   | 70                       |
| WI    | LAFAYETTE   | 60                       |
| WI    | LANGLADE    | 70                       |
| WI    | LINCOLN     | 80                       |
| WI    | MANITOWOC   | 60                       |
| WI    | MARATHON    | 80                       |
| WI    | MARINETTE   | 60                       |
| WI    | MARQUETTE   | 70                       |
| WI    | MENOMINEE   | 70                       |
| WI    | MILWAUKEE   | 60                       |
| WI    | MONROE      | 70                       |
| WI    | OCONTO      | 60                       |
| WI    | ONEIDA      | 80                       |
| WI    | OUTAGAMIE   | 70                       |
| WI    | OZAUKEE     | 60                       |

| State | County      | Design Frost Depth (in.) |
|-------|-------------|--------------------------|
| WI    | PEPIN       | 80                       |
| WI    | PIERCE      | 80                       |
| WI    | POLK        | 80                       |
| WI    | PORTAGE     | 70                       |
| WI    | PRICE       | 80                       |
| WI    | RACINE      | 60                       |
| WI    | RICHLAND    | 70                       |
| WI    | ROCK        | 60                       |
| WI    | RUSK        | 80                       |
| WI    | SAINT CROIX | 80                       |
| WI    | SAUK        | 70                       |
| WI    | SAWYER      | 80                       |
| WI    | SHAWANO     | 70                       |
| WI    | SHEBOYGAN   | 60                       |
| WI    | TAYLOR      | 80                       |
| WI    | TREMPEALEAU | 80                       |
| WI    | VERNON      | 70                       |
| WI    | VILAS       | 80                       |
| WI    | WALWORTH    | 60                       |
| WI    | WASHBURN    | 80                       |
| WI    | WASHINGTON  | 60                       |
| WI    | WAUKESHA    | 60                       |
| WI    | WAUPACA     | 70                       |
| WI    | WAUSHARA    | 70                       |
| WI    | WINNEBAGO   | 70                       |
| WI    | WOOD        | 70                       |

flock safety

PROJECT INFORMATION: \_\_\_\_\_  
STANDARD  
CONFIGURATION DETAILS  
(DIRECT EMBED SYSTEM)  
AUTOMATIC LICENSE  
PLATE READER AND  
SOLAR PANEL SYSTEM

PLANS PREPARED BY: \_\_\_\_\_  
**Kimley»Horn**  
817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

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| 1          |             |                   |           |
| 0          | 04/28/23    | CONSTRUCTION      | MRD       |

LICENSER: \_\_\_\_\_  
  
05/01/2023

KHA PROJECT NUMBER: \_\_\_\_\_  
014681002  
DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
MRD MRD

SHEET TITLE: \_\_\_\_\_  
**FROST DEPTH REQUIREMENTS**  
SHEET NUMBER: \_\_\_\_\_  
**R-1**



**Attachment 1 - Environmental Checklist**

Note: To print the Checklist, click on the icon and set Pages to Print to "© Pages 3-5"



**Include this Checklist and any supplemental documentation with form dt1553, *Application/Permit to Construct, Operate and Maintain Utility Facilities on Highway Right-of-Way*. The application will be returned if the Checklist is not included or is incomplete.**

Answer the following questions related to the proposed utility project to show environmental compliance or coordination with various agencies/Tribes. WisDOT's permit approval does not relieve a utility from compliance with all applicable federal, state, local and tribal laws, codes, regulations, and ordinances and shall not be construed as superseding any other governmental agency's more restrictive requirements. Keep all supporting documents on file with WisDOT's permit for its duration and provide upon request.

*Remember: Supporting documentation may be required to prove environmental coordination with a regulatory agency on the Checklist. If an agency does not require documentation, a utility is not required to submit it to WisDOT. However, supply documentation if it may be helpful in WisDOT's review of the Checklist, e.g., permits, approvals, certifications, checklists, correspondence, website screenshots/PDFs, mapping, etc. Checkboxes that only have yes, no, or not applicable answers are automatically set to no or not applicable.*

### 1. **Aquatic Resource Impacts**

Use the Wisconsin Wetland Inventory maps and the [DNR Surface Water Data Viewer](#) (SWDV) to identify waterways, surface waters and potential wetlands. These tools are not comprehensive, and field surveys may be required to identify aquatic resources within the footprint of a proposed project. Consult with Department of Natural Resources and U.S. Army Corps of Engineers as needed.

Does the proposed project have the potential to impact any aquatic resources (wetlands, waterways, etc.)?

- ☐ No – Skip to question 2      ☐ Yes – Continue below

#### **State Wetland/Waterway Permit**

Does the proposed project meet all necessary terms, conditions, and eligibility criteria to receive non-reporting coverage under the DNR utility general permit ([DNR-GP3-2018](#)) for wetland/waterway impacts?

- ☐ Yes – Project meets all requirements for DNR *non-reporting* utility general permit coverage
- ☐ No – Project received *reporting* utility general permit coverage or individual wetland/waterway permit <https://dnr.wisconsin.gov/topic/Sectors/UtilityPermitting.html>

- ☐ Not applicable – Project is exempt from all wetland/waterway permitting requirements

Wetlands: <https://dnr.wisconsin.gov/topic/Waterways/Permits/Exemptions.html>

Waterways: <https://dnr.wisconsin.gov/topic/Wetlands/permits/exemptions.html>

- ☐ Not applicable – Project occurs wholly within boundaries of a Native American Nation or Tribal reservation and DNR does not have jurisdiction. See question 6.

#### **Federal Wetland/Waterway Permit**

Does the proposed project meet all necessary terms, conditions, and eligibility criteria to receive no-preconstruction notification (PCN) coverage under the USACE utility or other regional general permit (RGP) or a nationwide permit (NWP) for wetland/waterway impacts?

<https://www.mvp.usace.army.mil/Missions/Regulatory/Permitting-Process-Procedures/>

- ☐ Yes – Project meets all requirements for no-PCN coverage under a USACE RGP or NWP
- ☐ No – Project covered under USACE's RGP or NWP coverage obtained through submittal of a preconstruction notification or other Section 404 permit coverage.
- ☐ Not applicable – Project does not impact waters of the United States.



## 2. Protected Species

Projects with the potential to affect protected species must be covered under the [DNR Broad Incidental Take Permit/Authorization for No/Low Impact Activities](#) or undergo an endangered resources preliminary assessment or review. A preliminary assessment may be completed through the [DNR Natural Heritage Inventory \(NHI Public Portal\)](#). An endangered resources review may be conducted by a [DNR certified endangered resources reviewer](#).

All components of the proposed project covered under this permit:

- ☐ Are covered by the DNR Broad Incidental Take Permit/Authorization for No/Low Impact Activities.
- ☐ Received one of the following results from the NHI Public Portal preliminary assessment or endangered species review. WisDOT encourages implementing DNR recommended actions.
  - ☐ No further actions are needed
  - ☐ Further actions are recommended
  - ☐ Further actions are strongly recommended
- ☐ Are implementing all required actions from the DNR endangered resources review. WisDOT also encourages implementation of DNR recommended actions.
- ☐ Are covered by an DNR Incidental Take Permit and/or USFWS coordination under the Endangered Species Act.

## 3. Construction Site Stormwater Permits

Projects that involve one acre or more of land disturbance require a utility to submit a Notice of Intent (NOI) erosion control permit under Wis. Adm. Code [NR 216](#).

Does the proposed project affect one acre or more of land disturbance?

- ☐ No – Meets criterion      ☐ Yes – Coordination completed

## 4. Erosion Control Plan & Stormwater Management Plans

Does the proposed project meet the [Trans 401](#) “Major” category?

- ☐ No – Meets criterion for minor project      ☐ Yes – Attach formal erosion control plan

*For minor projects, immediately replace disturbed soil and topsoil and/or temporary seed and mulch the soil, which includes repairing equipment and vehicle tracks. Have erosion control devices (hay or straw bales, wattles, silt fence, erosion mat, etc.) at the site or immediately accessible in case weather conditions cause immediate action to protect bare or loose soil. Cover soil piles left overnight with plastic or protect with silt fence or other approved perimeter control devices on the downslope side to prevent possible runoff.*

Does the proposed project require a Stormwater Management Plan?

- ☐ No – Meets criterion      ☐ Yes – Coordination completed

For more information: [DNR Erosion Control and Stormwater Management Plans](#)

## 5. Wisconsin Historic Preservation Database

Are any historic resources located within the proposed project limits?

- ☐ No – Meets criterion      ☐ Yes – Coordination completed

Contact: [State Historic Preservation Office](#) or go to: [Wisconsin Historic Preservation Database](#)

## 6. Tribal Government Coordination

Is any part of the work located within the reservation boundaries of a Native American Nation or Tribal reservation? Any utilities placed within a Native American Nation or Tribal reservation require Bureau of Indian Affairs (BIA)/Tribal approval prior to placing their facilities in WisDOT ROW.

- ☐ No – Meets criterion      ☐ Yes – Coordination completed

Tribal Government Contacts: <http://witribes.wi.gov/>

*Note: A utility must obtain a Tribal permit and BIA approval of a NEPA document to proceed with utility work on a STH within a Tribal Reservation. WisDOT's utility permit does not grant automatic approval.*



**7. Open or Closed Contaminated Sites, DNR Water Supply Permit, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LUSTs)**

Does the proposed project affect any of these items?

| Decision \ Item              | Contaminated sites                  | DNR water supply permit             | USTs                                | LUSTs                               |
|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| No – Meets criterion         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Yes – Coordination completed | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |

DNR: [Wisconsin Remediation and Redevelopment Database \(WRRD\)](#) and [Remediation & Redevelopment \(RR\) Program staff contacts](#)

DATCP: [MyDATCP: Storage Tank Search](#)  
[Region Environmental Coordinators and Regionwide SWECE and Mega/Major project coordinators](#)

**8. Asbestos**

Does the project include replacement of asbestos wrapped utility conduit or Transite piping?

☒ No – Meets criterion      ☐ Yes – Document who will complete required notification to the [DNR](#) or [DHS](#), the abatement methods, and the disposal location.

**9. Project Comments**

Provide any additional comments or extenuating circumstances that may assist in the review of the project's environmental coordination. List all utility work request, project plan set, or other identification numbers or references included in the environmental coordination and permitting of the project.

**Certification Statement:** Upon executing the signature below, the signatory certifies that the Checklist is complete, all information is accurate and true, and all required environmental compliance/coordination is complete and on file with the utility.

**Disclaimer:** Any change in project scope requires this Checklist to be resubmitted and certified to reflect the most updated set of project details.

Signature:  Date: 11/09/2022

Name & Title (print): Heather Thayer, Project Manager

Company: Kimley-Horn & Associates

Email: [heather.thayer@kimley-horn.com](mailto:heather.thayer@kimley-horn.com)





COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

JURISDICTION:

WISCONSIN  
DEPARTMENT OF  
TRANSPORTATION

SITE IDENTIFICATION

COLUMBIA COUNTY SHERIFF'S OFFICE  
711 E COOK ST.  
PORTAGE, WI 53901  
(651) 371-7765



FLOCK SAFETY  
1170 HOWELL MILL ROAD NW  
SUITE 210  
ATLANTA, GA 30318  
PERMIT@FLOCKSAFETY.COM  
415-669-0341

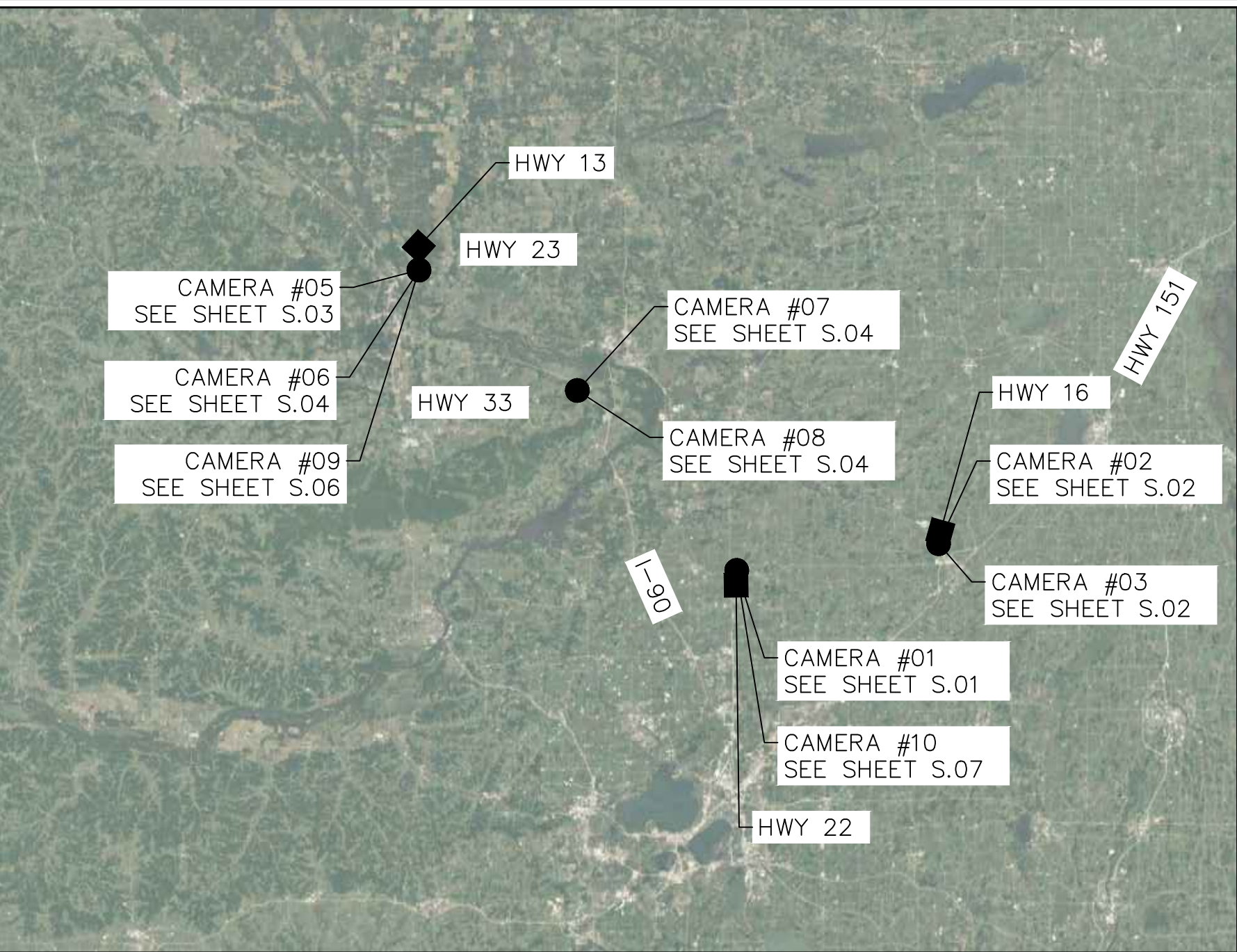


KIMLEY-HORN AND ASSOCIATES, INC.  
817 W PEACHTREE STREET, SUITE 601  
ATLANTA, GA 30308 PHONE: (312) 401-6614  
ATTN.: TRACY LEHMAN, P.E.

PROJECT TEAM

INSTALLATION OF NEW POLE IN EXISTING RIGHT OF WAY SUPPORTING  
LICENSE PLATE READER CAMERA FOR THE COLUMBIA COUNTY  
SHERIFF'S OFFICE.

PROJECT SUMMARY



VICINITY MAP

| SHEET #     | SHEET TITLE                      | DRAWN BY |
|-------------|----------------------------------|----------|
| T.01        | TITLE SHEET                      | XQD      |
| T.02        | SYMBOLGY AND ABBREVIATIONS       | XQD      |
| S.01-S.07   | SITE PLANS                       | XQD      |
| D.01-D.04   | EQUIPMENT AND FOUNDATION DETAILS | XQD      |
| TC.01-TC.09 | TRAFFIC CONTROL PLANS            | WRB      |
|             |                                  |          |
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SHEET INDEX



PROJECT INFORMATION:

COLUMBIA COUNTY  
SHERIFF'S OFFICE  
LICENSE PLATE READER  
INSTALLATION

PLANS PREPARED BY:

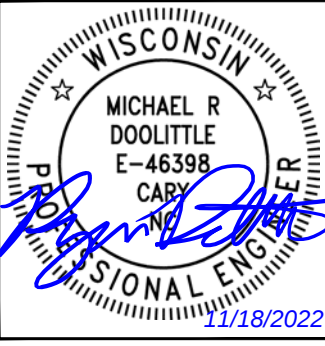


817 WEST PEACHTREE STREET,  
NW, SUITE 601,  
ATLANTA, GA 30308  
PHONE: (404) 419-8700  
WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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| 0 | 10/20/22 | PERMITTING | MRD |

LICENSER:



KHA PROJECT NUMBER:

014681000.1.299

DRAWN BY: CHECKED BY:

XQD TLL

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T.01